QUÉ ES

Una librería para componer interfaces y renderizarlas

QUÉ NO ES

Un framework completo con router, cliente HTTP, etc

¿PARA QUÉ?

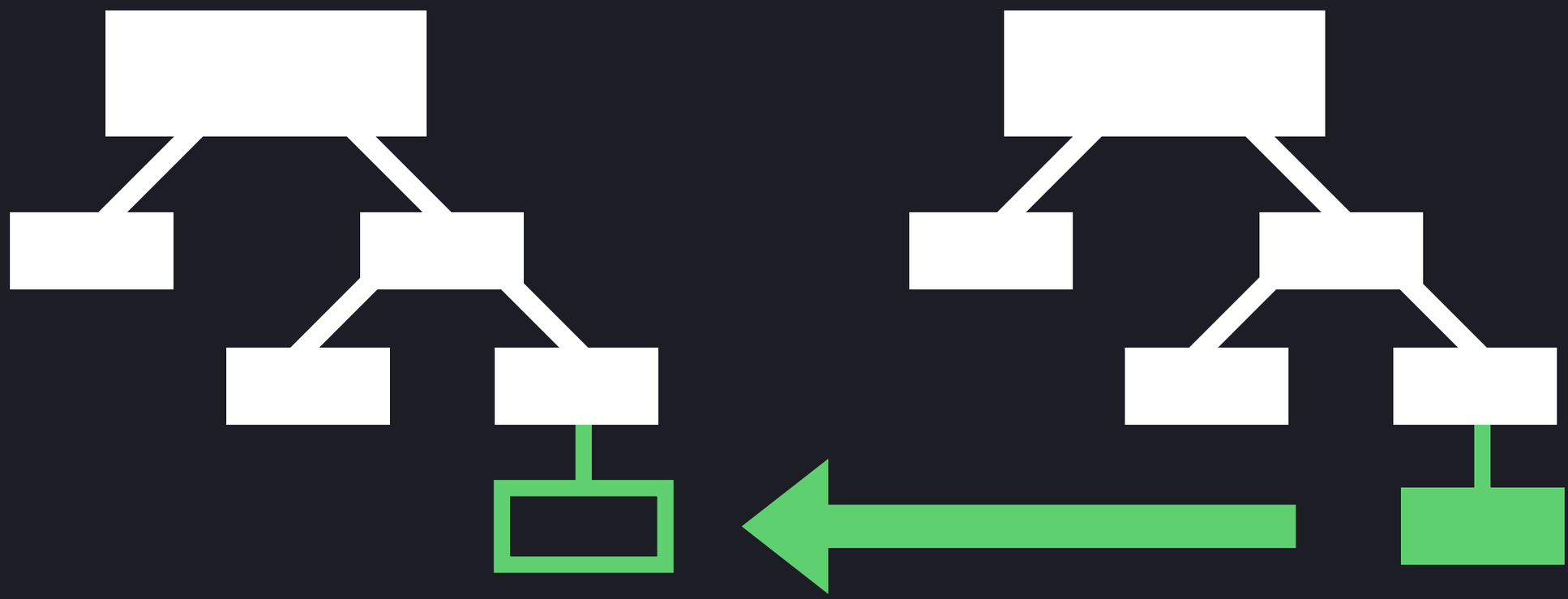
Separar la UI en componentes reusables

Actualizar la UI automáticamente cuando los datos cambian

CARACTERÍSTICAS

1. Virtual DOM
2. Flujo unidireccional de datos
3. JSX
4. Componentes

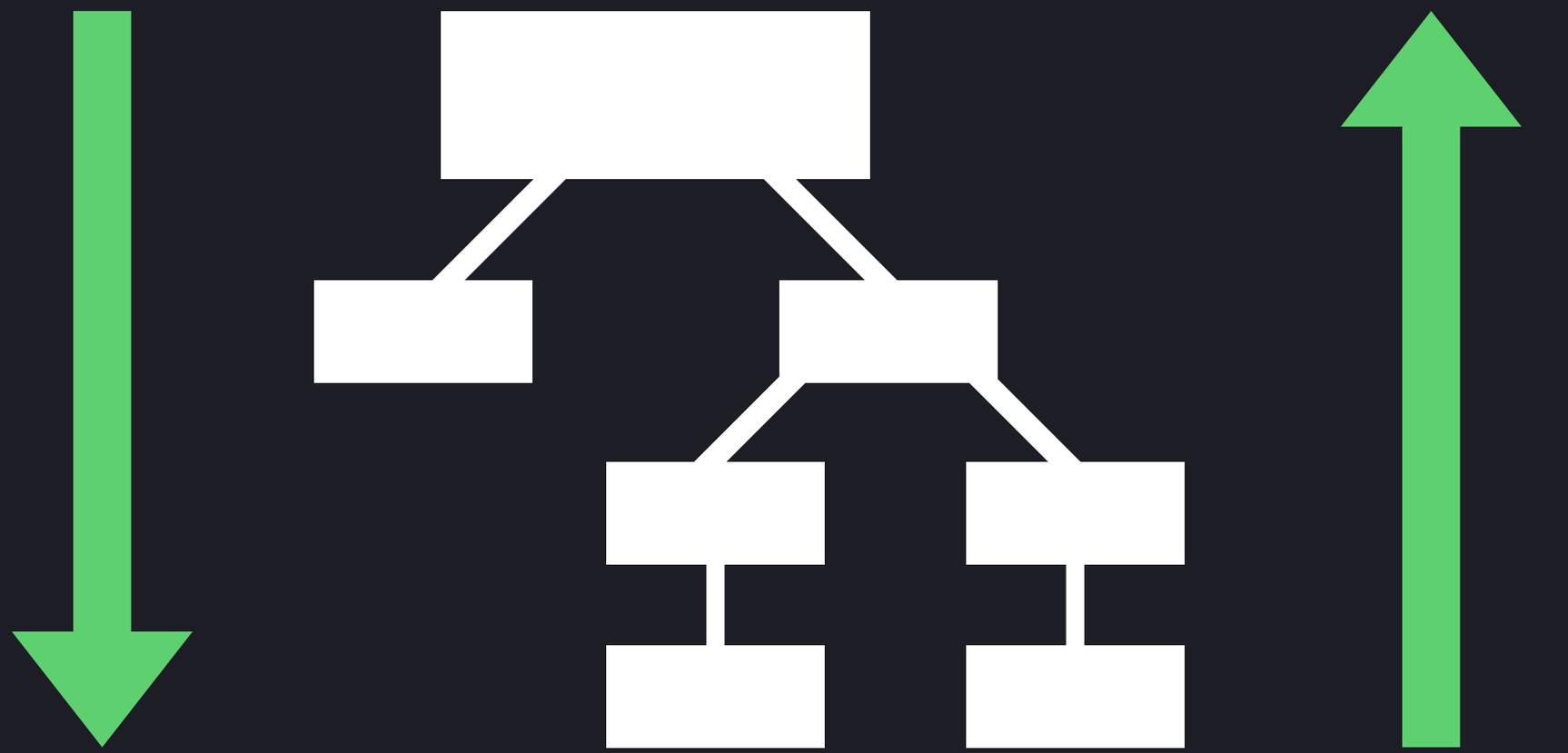
VIRTUAL DOM



DOM

Virtual DOM

FLUJO UNIDIRECCIONAL DE DATOS



Datos

Eventos

JSX

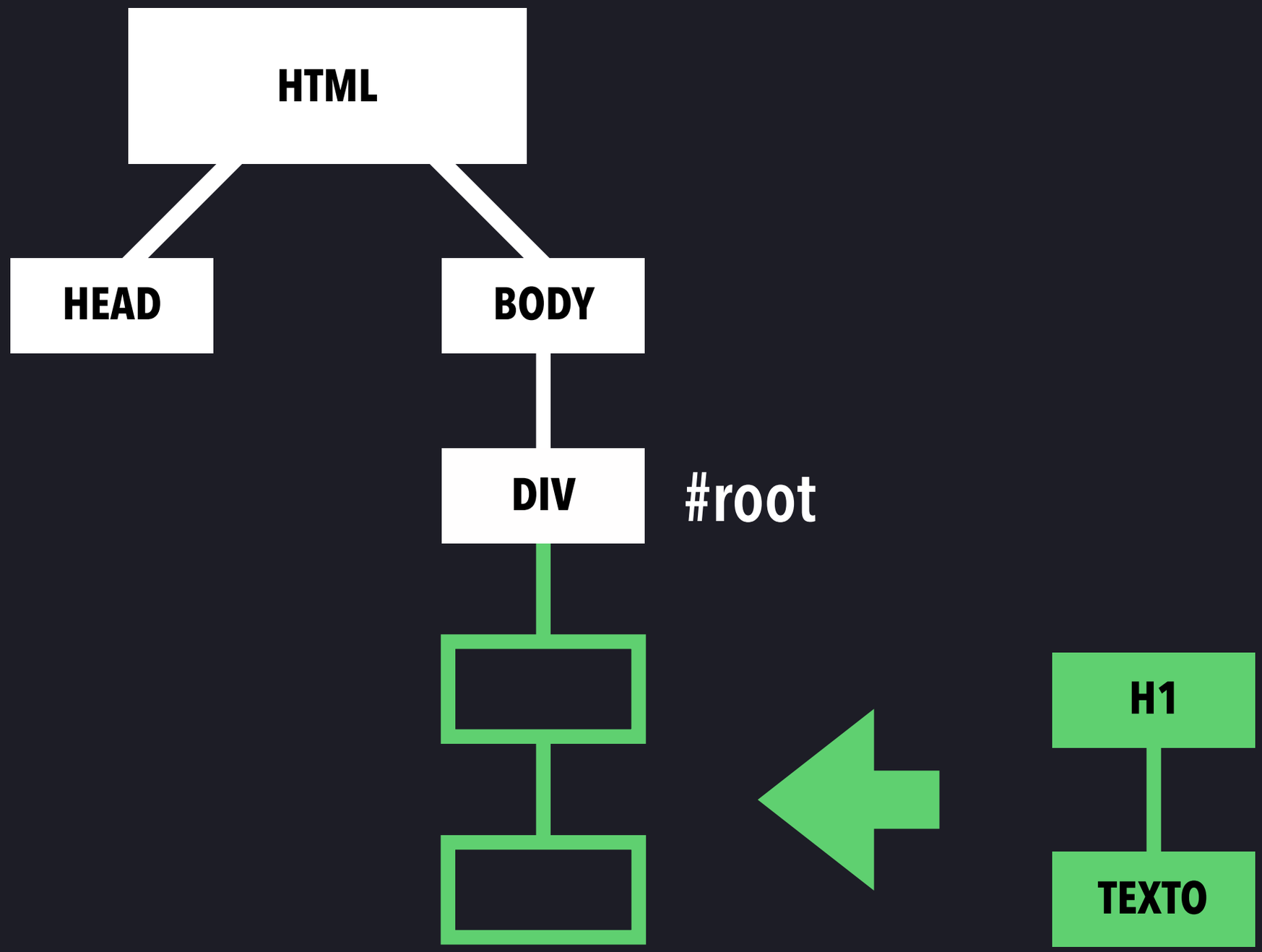
```jsx
<a href="https://xkcd.com/221/" className="xkcd">
    <img src="https://imgs.xkcd.com/comics/random_number.png" />
</a>
```

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

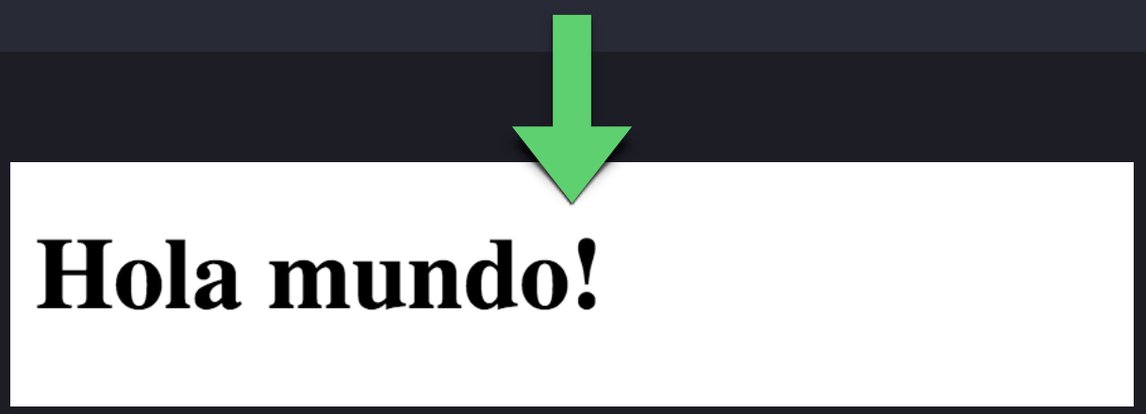
COMPONENTES

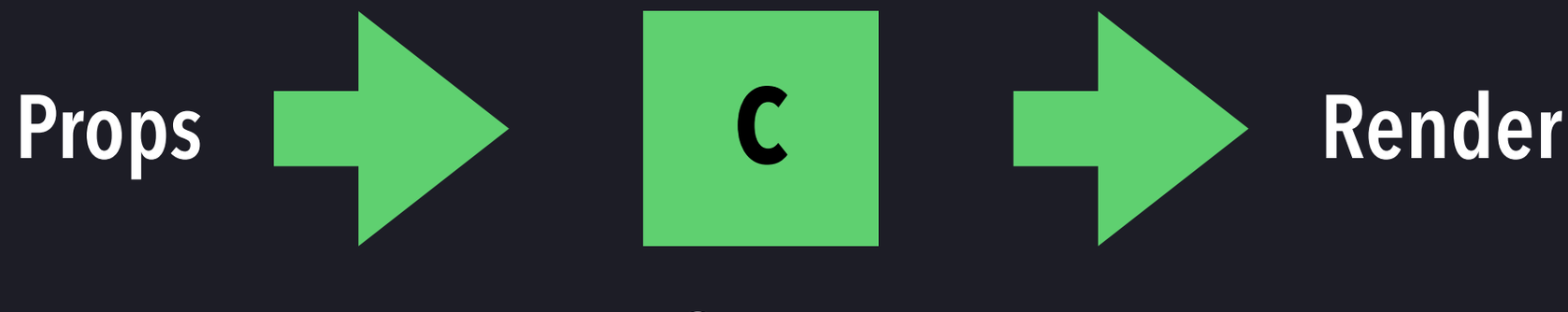

Props
C
Render

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

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

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

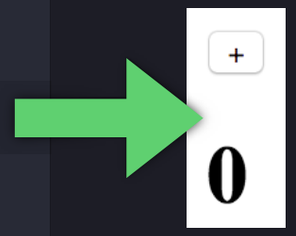

HTML
HEAD
BODY
DIV
#root
H1
TEXTO

```jsx
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'));
```



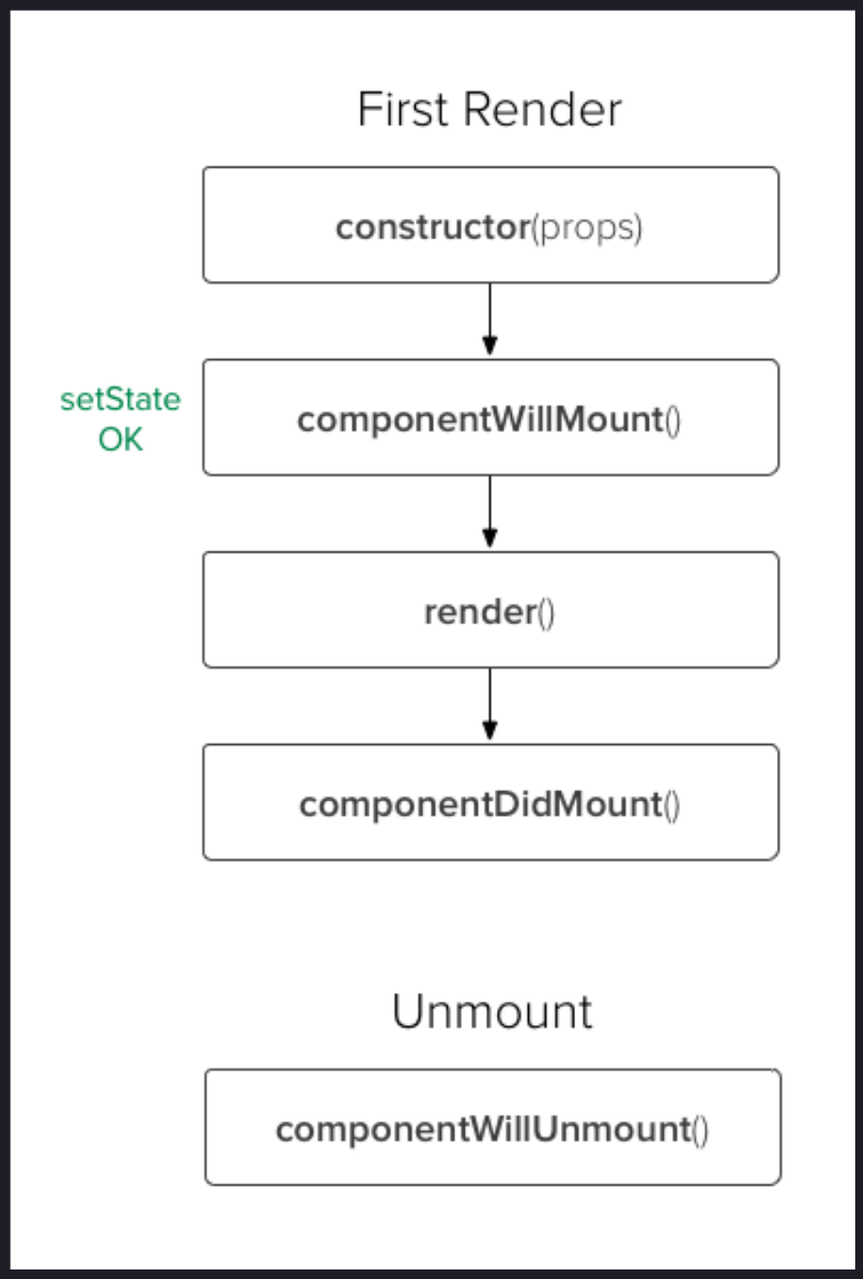

Props
C
Render
State

```jsx
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;
```



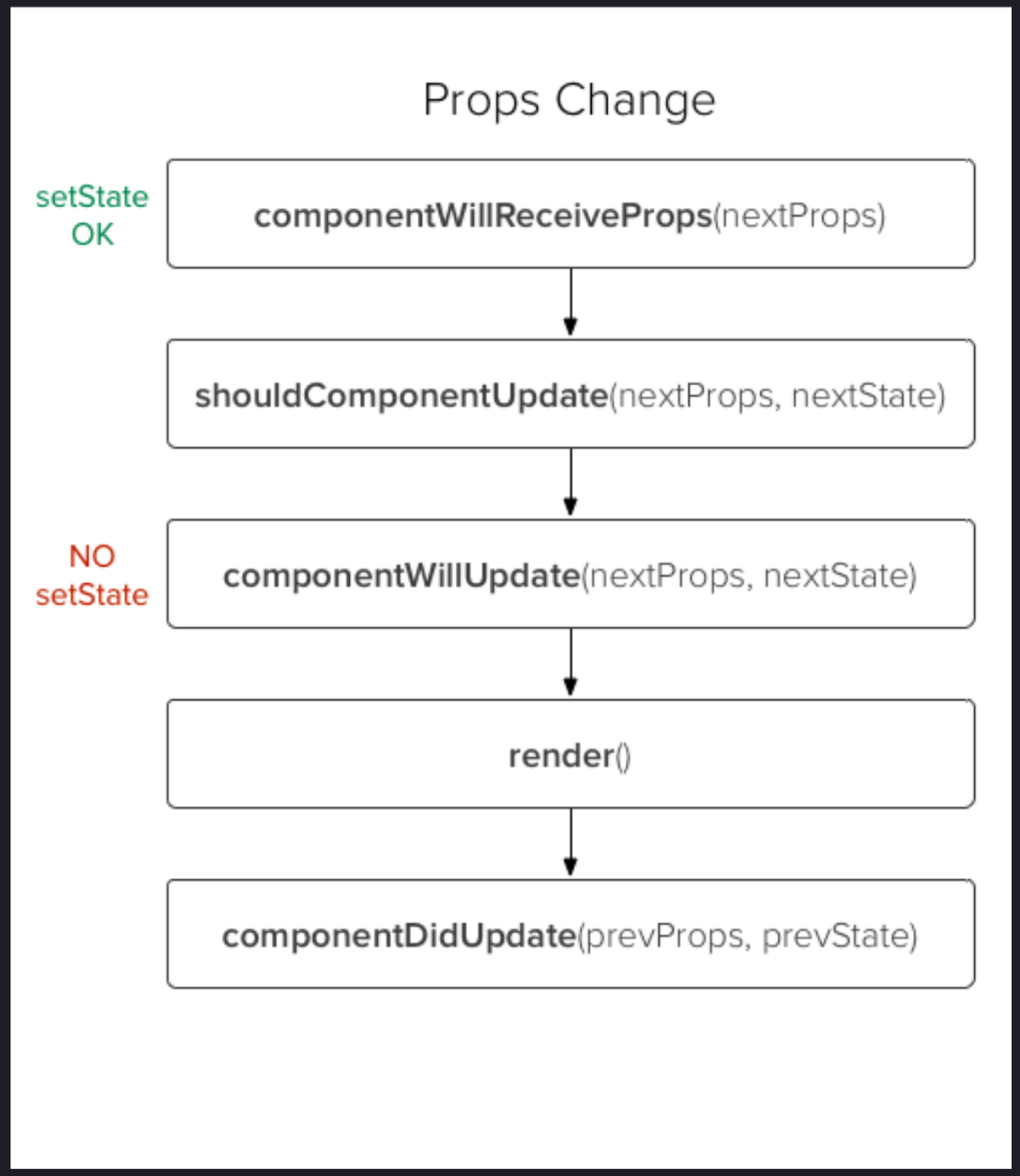
CICLO DE VIDA DE LOS COMPONENTES

```jsx
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;
```



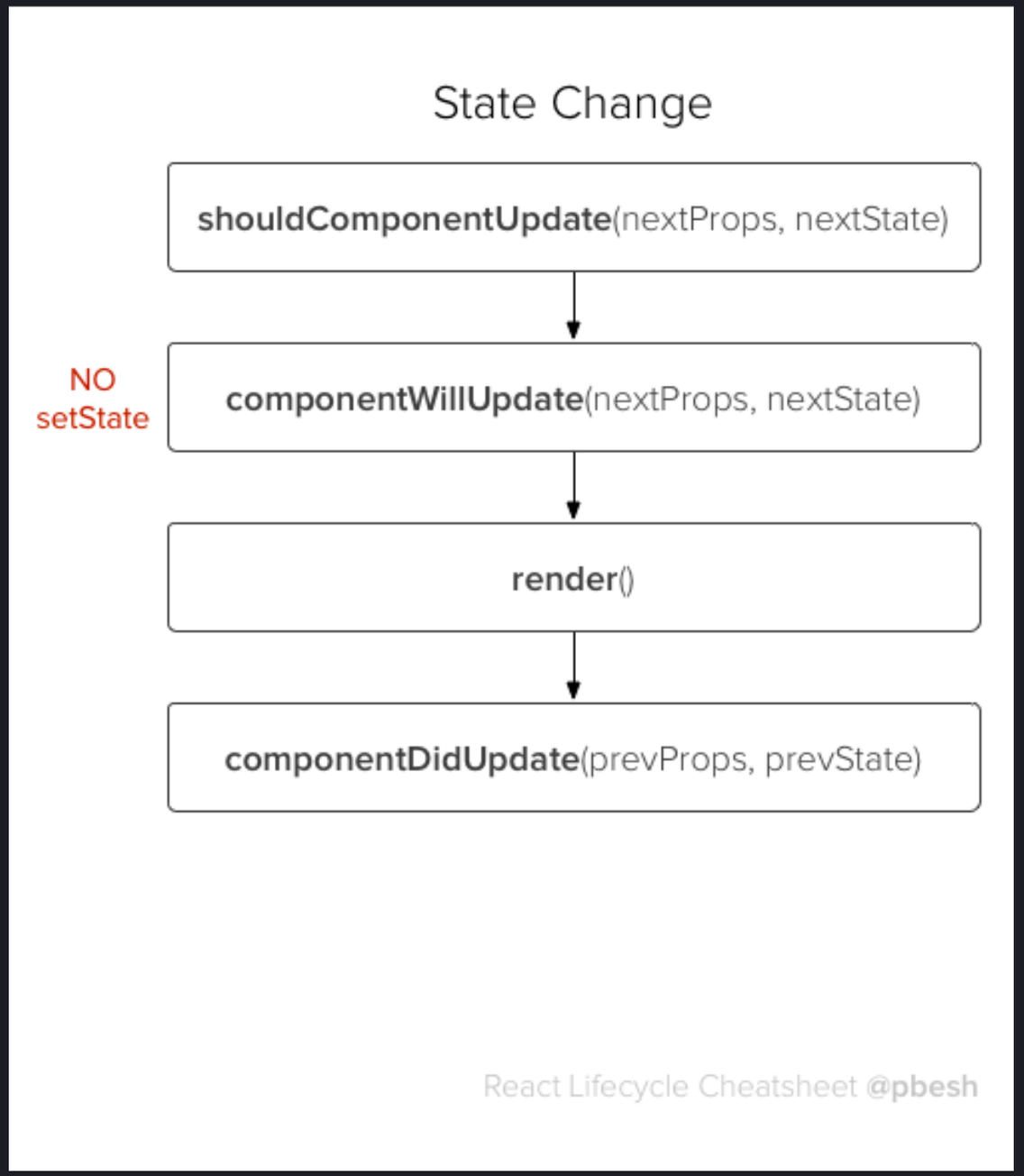
Cheatsheet by https://twitter.com/pbesh

```jsx
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;
```



Cheatsheet by https://twitter.com/pbesh

```jsx
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;
```



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'));
```

```jsx
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'));
```

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.

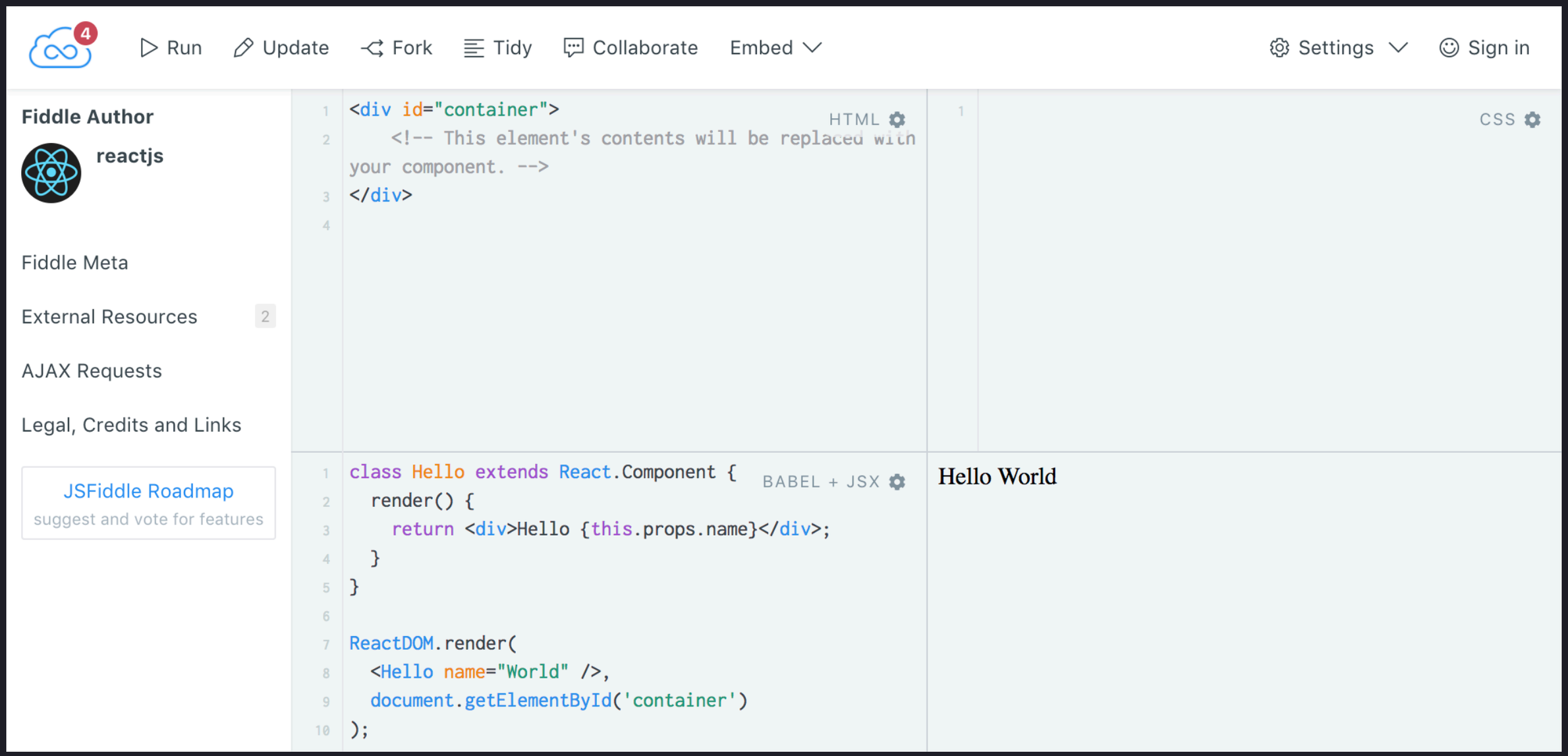
Create React App works on macOS, Windows, and Linux.
If something doesn't work, please file an issue.

Quick Overview

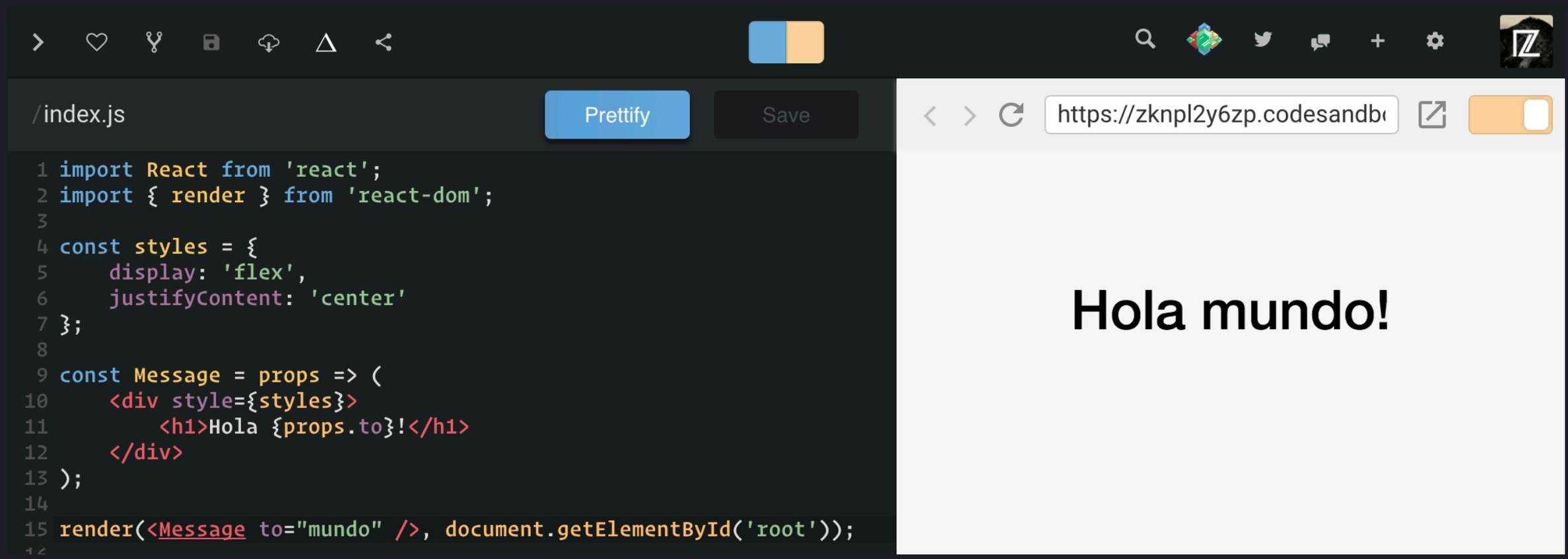
```
npm install -g create-react-app

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



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



https://codesandbox.io

¿PREGUNTAS?