

## React time!

What about the circle of life?? 😈 🧰

# Has a component life?

Yes.

It follows a cycle.

Creation, grown and dead.

# Has a component life? x2

Some key concepts:

- Stateful vs Stateless
- Can components remember their own *state*?

Wait...

• Dude, WTF is the *state*???

# A way to remember (you?)!!

The state in react is similar top the props, but it is private and fully controlled by the component.

The only way to add state to our components is using...

### **A CLASS!! DAMN IT!!!**

# **Converting a Function to a Class**

- 1. Create an ES6 class, with the same name, that extends React.Component.
- 2. Add a single empty method to it called render().
- 3. Move the body of the function into the render() method.
- 4. Replace props with this.props in the render() body.
- 5. Delete the remaining empty function declaration.

# **Common life cycle process**

### Mount

- constructor() \*
- static getDerivatedStateFromProps()
- render() \*
- componentDidMount() \*

The methods with \* are common ones.

# Common life cycle process x2 Update

- static getDerivatedStateFromProps()
- shouldComponentUpdate()
- render() \*
- getSnapshotBeforeUpdate()
- componentDidUpdate \*

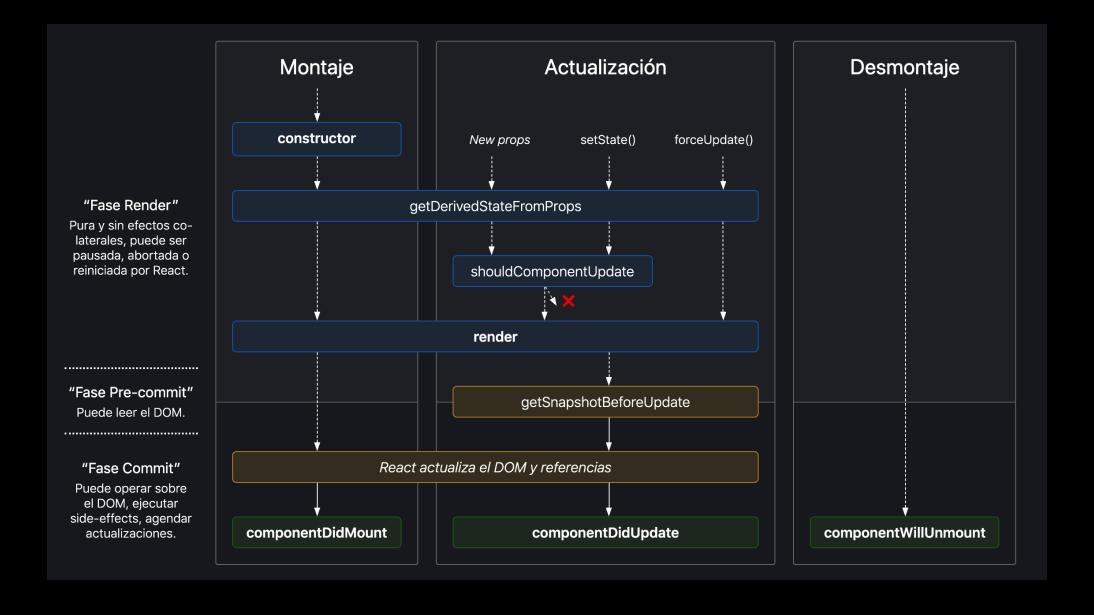
The methods with \* are common ones.

# Common life cycle process x3 Unmount

• componentWillUnmount() \*

The methods with \* are common ones.

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# A great power comes with a great responsability

Let's use the state correctly!!

1. Do Not Modify State Directly

```
this.state.comment = 'Hello';
this.setState({ comment: 'Hello' });
```

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2. State Updates May Be Asynchronous

```
• • •
this.setState({
  counter: this.state.counter + this.props.increment,
});
this.setState((state, props) => ({
 counter: state.counter + props.increment
}));
this.setState(function(state, props) {
 return {
    counter: state.counter + props.increment
 };
});
```

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3. State Updates are Merged

```
• • •
constructor(props) {
  super(props);
  this.state = {
    posts: [],
    comments: []
componentDidMount() {
  fetchPosts().then(response => {
    this.setState({
      posts: response.posts
   });
 });
```

# **Not luxury Events**

TL;DR

- 1. Synthetic events
- 2. Binding

# Links

- React Component Documentation
- Synthetic events Documentation