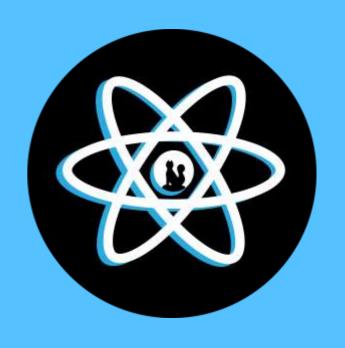
Hook Me UP



Carlos Mafla carlosmafla.com

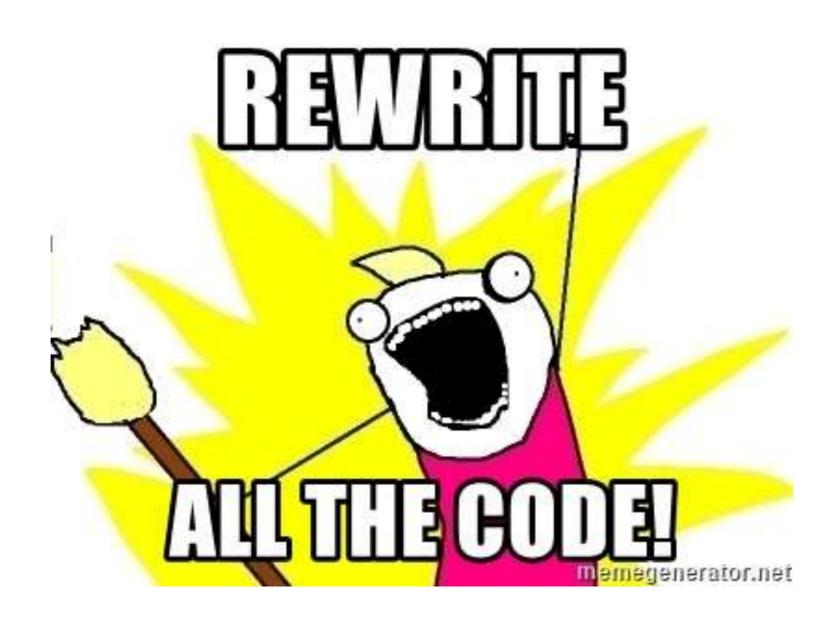


meetup.com/reactcali

About Me

- Web Developer (Backend, Frontend, DevOps, etc.)
- 15+ years of experience
- @gigo6000 (Twitter, Instagram, Github)
- youtube.com/CarlosMafla







Hooks are still alpha





Heads up: react@16.8.0-alpha.0 and react-dom@16.8.0-alpha.0 are out - for people who want the latest build with Hooks enabled. (The warnings about using alphas apply.)

We're back from vacations and are focused on getting Hooks into a stable release as our biggest priority.

6:11 PM - 9 Jan 2019

322 Retweets 1,470 Likes









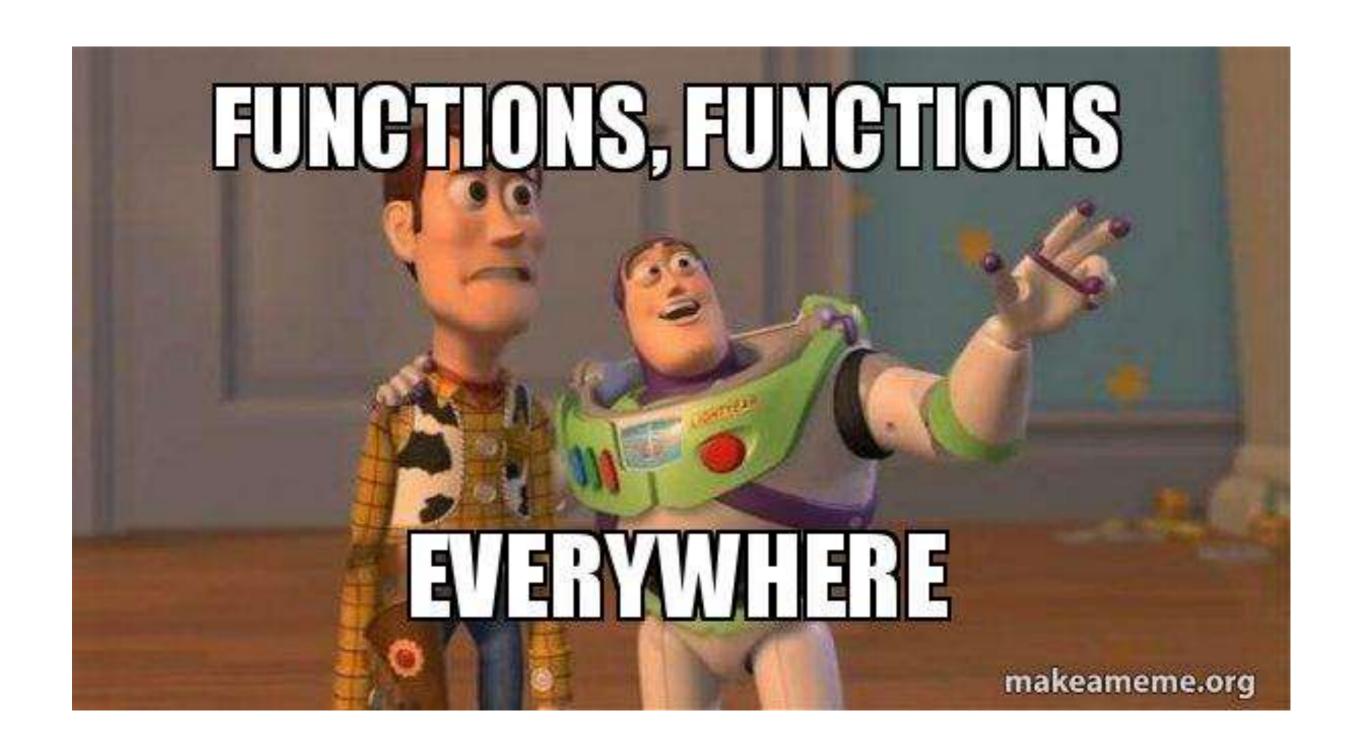


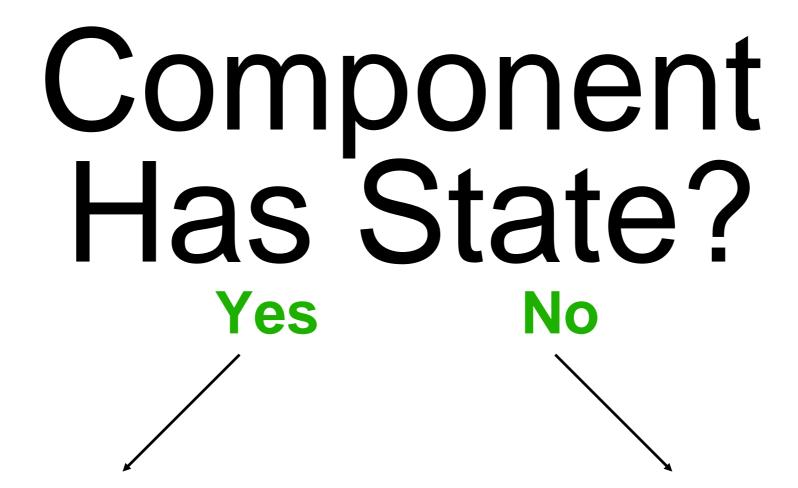




What are Hooks?

- New React API
- Function components (Chao classes!)
- The future of React





Class Component

Functional Stateless Component (FSC)

Hooks can be used side by side with classes

Why use Hooks?

Binding

```
import React from 'react'
import { Card, Row, Input, Text } from './components'
import ThemeContext from './ThemeContext'
export default class Greetings extends React.Component {
 constructor(props) {
   super(props)
   this.state = {
     name: 'Mary',
     surname: 'Popins',
     width: width.innerWidth
   this.handleNameChange = this.handleNameChange.bind(this)
   this.handleSurnameChange = this.handleSurnameChange.bind(this)
   this.handleResize = this.handleResize.bind(this)
  componentDidMount() {
   window.addEventListener('resize', this.handleResize)
   document.title = this.state.name + ' ' + this.state.surname
 componentDidUpdate() {
   document.title = this.state.name + ' ' + this.state.surname
 componentWillUnmount() {
   window.removeEventListener('resize', this.handleResize)
 handleNameChange(event) {
   this.setState({ name: event.target.value })
 handleSurnameChange(event) {
   this.setState({ surname: event.target.value })
 handleResize() {
   this.setState({ width: InnerWidth })
 render() {
   const { name, surname, width } = this.state
   return (
     <ThemeContext.Consumer>
       {theme > (
          <Card theme={theme}>
           <Row label="Name">
             <Input value={name} onChange={this.handleNameChange} />
           </ROW
           <Row Label="Surname">
             <Input value={surname} onChange={this.handleSurnameChange} />
           <Row label="Width">
             <Text>{width}</Text>
           </ROW>
         </Card>
      </ThemeContext.Consumer>
```

Wrapper Hell

```
▼ < Unknown>

  v <t debug={false} errorMessage="">
    ₩ <0>
       w <t>
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            ▼ <Router>
              ▼ <RouterContext>
                 ▼ <Apollo(Connect(Apollo(n)))>
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                        </Connect(Apollo(n))>
                   </Apollo(Connect(Apollo(n)))>
                </RouterContext>
              </Router>
           </t>
      </0>
    </t>
 </Unknown>
```

https://medium.com/@jackyef/react-hooks-why-we-should-embrace-it-86e408663ad6

useState

State Variable Setter Function **Initial Value** // State with Hooks const [count, setCount] = useState(0);

```
// Without Destructuring
const countStateArray = useState(0);
const count = countStateArray[0];
const setCount = countStateArray[1];
```

```
import { useState } from 'react';
function Example() {
  // Declare a new state variable, which we'll call "count"
  const [count, setCount] = useState(0);
  return (
    <div>
      You clicked {count} times
      <button onClick={() >> setCount(count + 1)}>
        Click me
      </button>
    </div>
  );
                                       this.state.count
```

```
// State can be of any type and defined multiple times const [position, setPosition] = useState({ left: 0, top: 0 }); const [count, setCount] = useState(0); const [query, setQuery] = useState('');
```

useEffect

Interact with APIs

Subscribe to events

useEffect

- componentDidMount()
- componentDidUpdate()
- componentWillUnmount()

```
ComponentDidUpdate
ComponentDidMount
useEffect(() => {
  const timer = setInterval( () => tick(), 1000 );
  return function cleanup() {
      clearInterval(timer);
 });
       ComponentWillUnmount
```

Rules of Hooks

Only call hooks at the Top Level

- No loops
- No conditions

```
const [query, setQuery] = useState('');
const [loading, setLoading] = useState(true);
useEffect(function updateTitle() {
   document.title = 'Results for: ' + query;
});
```

```
//  Don't do this!
if (query != '') {
  useEffect(function updateTitle() {
    document.title = 'Results for: ' + query;
  });
}
```

Pos	First Render	Second Render
0	useState('')	useState('Rick')
1	useState(true)	useState(true)
2	useEffect(updateTitle)	useEffect(updateTitle)

```
// de Much better!
useEffect(function updateTitle() {
 if (query != '') {
     document.title = 'Results for: ' + query;
});
```

Only call hooks from React Functions

Custom Hook names should start with "use"

Let's see Hooks in action



More Hooks

- useReducer
- useContext
- useRef
- useMemo

•

Resources

- Official Docs: https://reactjs.org/docs/hooks-intro.html
- React Hooks Course: https://courses.carlosmafla.com/courses/react-hooks
- Ryan Florence (React Conf 2018): https://youtu.be/wXLf18DsV-I
- Dave Ceddia: https://www.youtube.com/watch?v=CpPCJigsPNY

Gracias

