

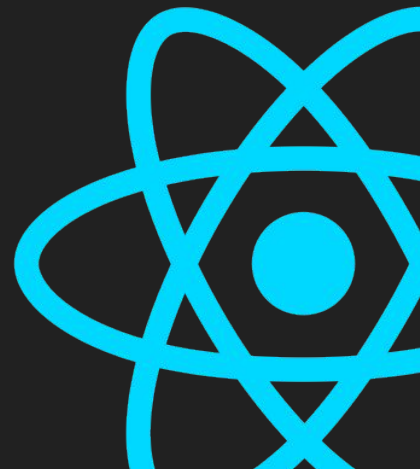
Começando com React



Nikollas Betiol



@betiol



Quem está usando React?

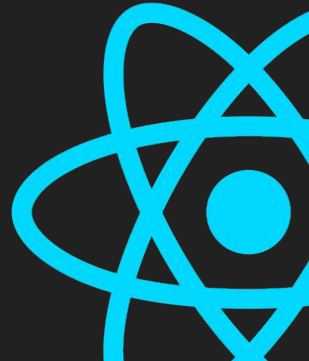


NETFLIX

The New York Times

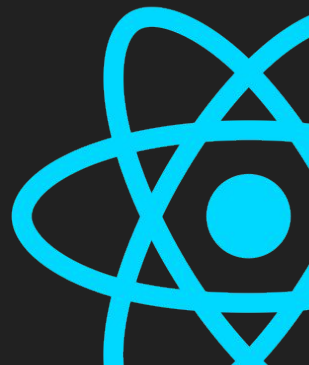


airbnb

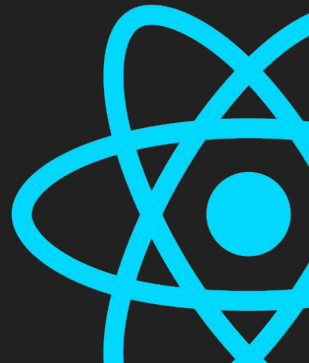


React

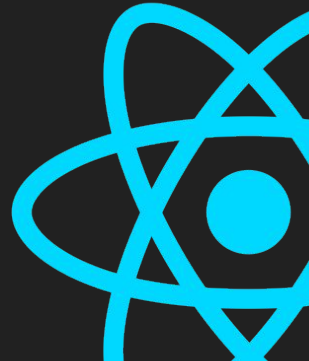
A JavaScript library for building user interfaces



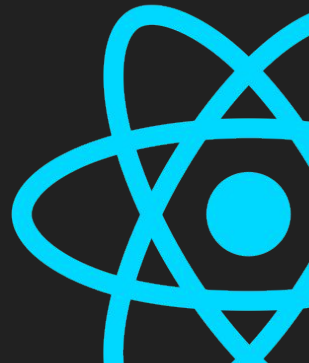
**Afinal, o que é
isso?**



- **Biblioteca**
- **Criada pelo Facebook**
- **MVC - Apenas View**
- **Open Source**

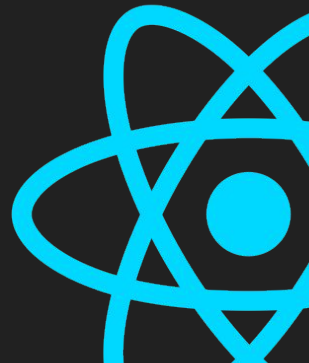


- “Learn Once, Write Anywhere”
- Construção de componentes
- Data flow é unidirecional
- Virtual DOM



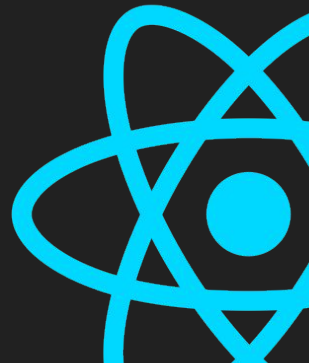
Porque componentes?

- Composição
- Reuso
- Manutenível
- Testável



JSX

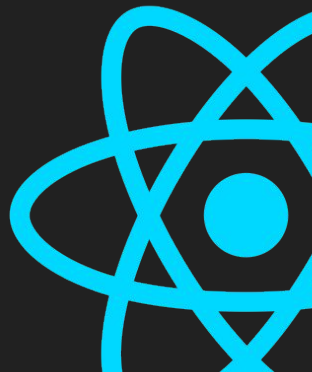
- Não é HTML
- É apenas um “syntactic sugar”
- Transformado em JavaScript



Simples e Declarativo

```
function HelloMessage({ name }) {  
  return <div> Hello {name}!</div>;  
}
```

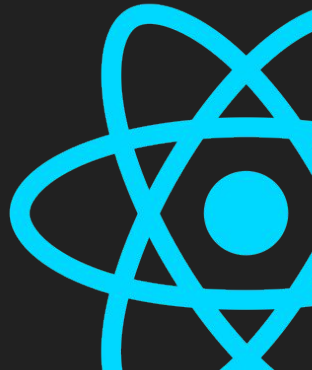
```
ReactDOM.render(<HelloMessage name="Nikollas" />, document.getElementById('root'));
```



JSX é um "syntactic sugar"

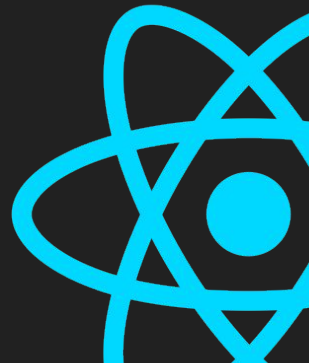
```
"use strict";
```

```
function HelloMessage() {  
  return React.createElement("div", null, "Hello ", this.props.name);  
}
```



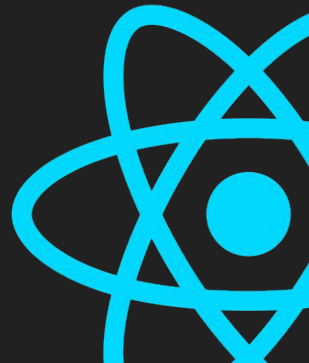
React Components

- Stateful vs Stateless
- Lifecycle
- Dataflow



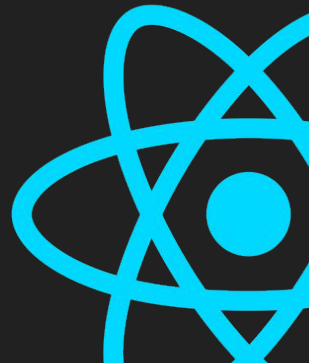
Stateful Component

```
class Like extends React.Component {  
  state = {  
    liked: false  
  };  
  
  handleClick = () => this.setState({ liked: !this.state.liked });  
  
  render() {  
    return (  
      <div>  
        <button onClick={this.handleClick}>Like</button>  
        <p>{this.state.liked ? 'like' : 'unlike'}</p>  
      </div>  
    );  
  }  
}
```



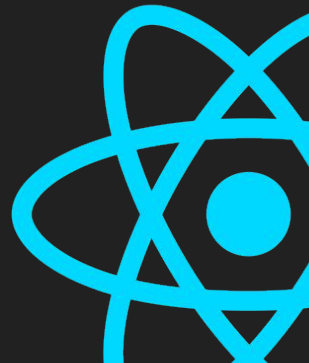
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        <button onClick={this.handleClick}>Like</button>  
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      </div>  
    );  
  }  
}
```



Stateful Component

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  handleClick = () => this.setState({ liked: !this.state.liked });  
  
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      <div>  
        <button onClick={this.handleClick}>Like</button>  
        <p>{this.state.liked ? 'like' : 'unlike'}</p>  
      </div>  
    );  
  }  
}
```

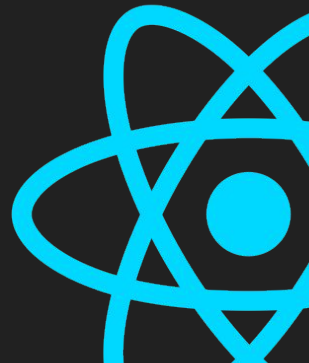


Stateless Component

```
import React from 'react';

function Like({ liked }) {
  return (
    <div>
      <p>{liked ? 'like' : 'unlike'}</p>
    </div>
  );
}

export default Like;
```



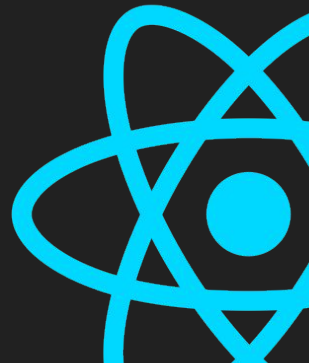
Stateful Component

```
import React from 'react'
import Like from './Like'

class Like extends React.Component {
  state = {
    liked: false
  }

  handleClick = () => this.setState({ liked: !this.state.liked })

  render() {
    return (
      <div>
        <button onClick={this.handleClick}>Like</button>
        <Like liked={this.state.liked} />
      </div>
    )
  }
}
```



Lifecycles

Mounting

- `constructor()`
- `getDerivedStateFromProps()`
- `componentDidMount()`

Updating

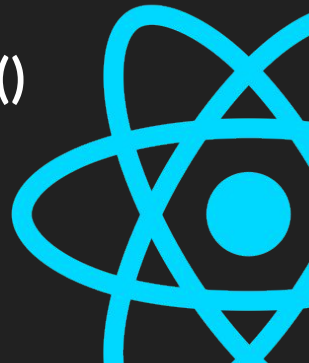
- `shouldComponentUpdate()`
- `getSnapshotBeforeUpdate()`
- `componentDidUpdate()`

Unmounting

- `componentWillUnmount()`

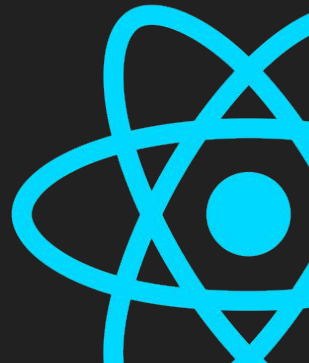
Error Handling

- `componentDidCatch()`



Data interface

- Props
- State



Data flow

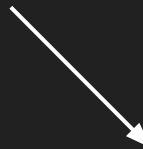
Data



Component



Component



Component

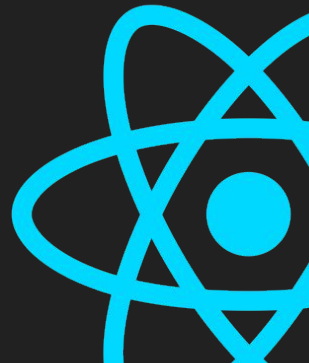


Component



Component

Events



ECMAScript

- Destructuring
- Class
- Interpolação de string
- Spread Operator

Create React App

Hoje é mais fácil do que nunca criar um projeto React

- Apenas crie o projeto e Let's code!
- Babel, ESLint, Webpack
- Apenas uma dependência
- Sem configuração necessária
- Você pode ejetar quando quiser

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

O que vem depois?

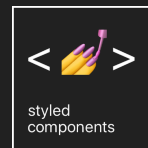
Data flow



Testes



CSS in JS



Forms



Tipagem Estática



Rotas



Referências

<https://reactjs.org>

<https://github.com/facebook/react>

<https://github.com/adam-golab/react-developer-roadmap>

Abertura do Grupo de Estudos Frontend



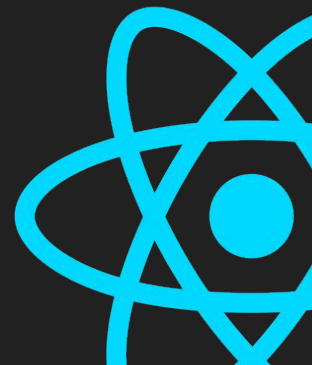
GDG Cuiabá



Roberto Giacomette



Nikollas Betiol



Obrigado!

