ReactMative

Ein Einstieg

aus Sicht eines Web Developers

React Core Concepts

- + JSX
- + Components & Props
- + State
- + Rendering Elements

JSX

const element = <h1>Hello, world!</h1>;

JSX

JSX

```
const element = React.createElement(
   'h1',
    {className: 'greeting'},
   'Hello, world!'
);
```

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Components & Props

- + Elements sind kleinste Einheit
 const element = <h1>Hello, world!</h1>;
- + Components (UI + Logik) akzeptieren props als
 Inputparameter und returnen React Elements
 function Welcome(props) {
 return <h1>Hello, {props.name}</h1>;
 }

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ES6 Class Components

```
class Welcome extends React.Component {
  nameToUpperCase (name) {
    return name.toUpperCase()
  render() {
    return <h1>Hello, {this.nameToUpperCase("thomas")}</h1>;
```

State

- + Props read-only
- + State innerhalb einer Component
- + Redux für Application State Management

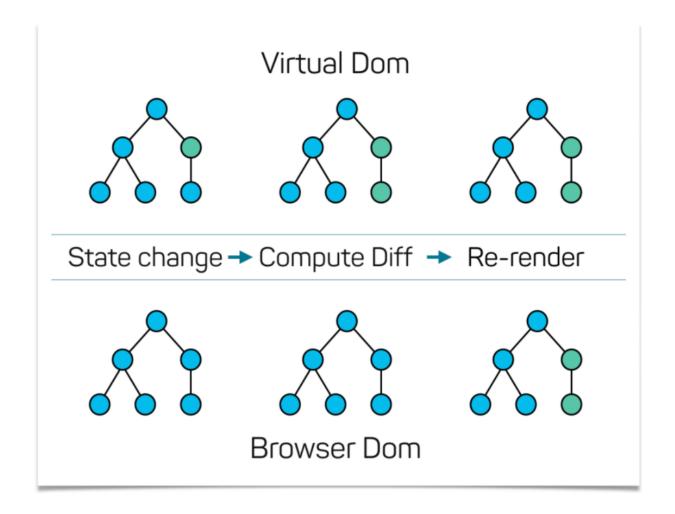
State

```
class Name extends Component {
  constructor(props) {
    super(props);
    this.state = {name: 'Thomas'};
  render() {
    const {name} = this.state
    return (
      <div>
        <h1>{name}</h1>
        <button onClick={() => this.setState({name: 'Klaus'})}>
          Change Name
        </button>
      </div>
```

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Rendering Elements

Rendering Elements



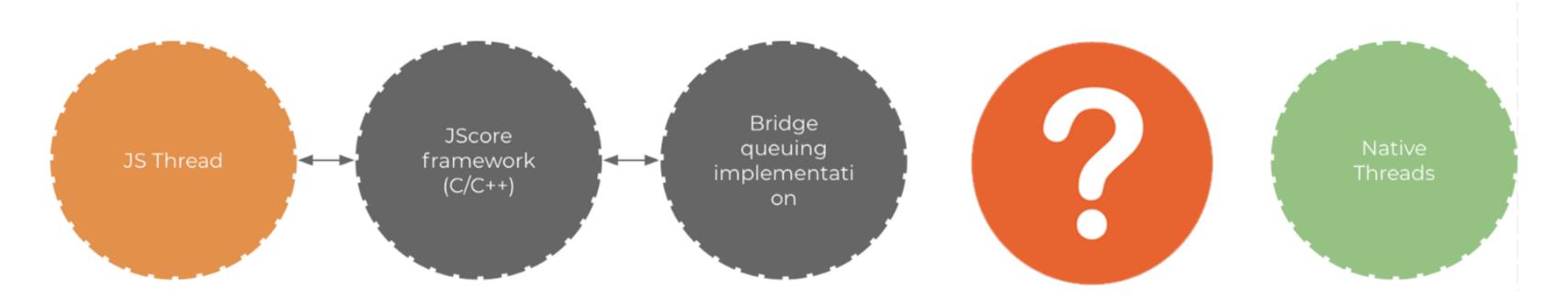
(Quelle https://mfrachet.github.io/create-frontend-framework/vdom/intro.html)

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React vs. React Native

React	React Native
Web Components	Native Components
Web APIs	Native APIs
CSS	Style in JavaScript
_	Native Modules

Native Bridge



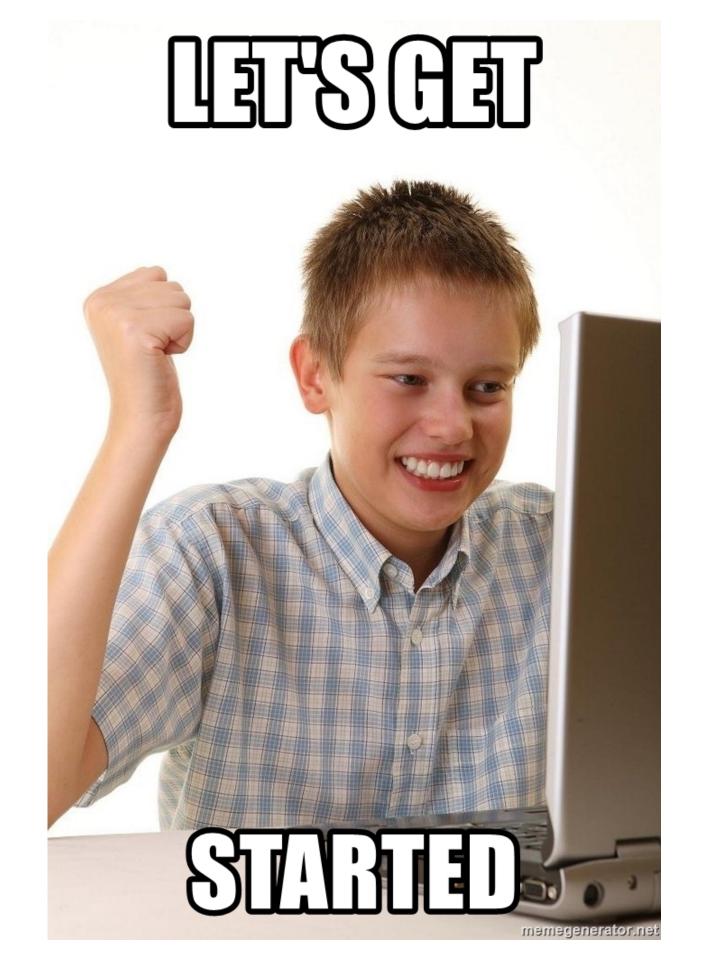
(Quelle https://hackernoon.com/understanding-react-native-bridge-concept-e9526066ddb8)



- + Shopping App bereits Hybrid-Lösung mit React + Native Wrapper
- + Shopgate CONNECT Platform React Native App als Frontend
- + Neues Produkt vollständig React Native + Shopgate CONNECT

Getting Started

- + Expo.io oder React Native CLI
- + Neue App initialisieren
- + Erste Component schreiben
- + Camera API ansprechen



Quellen

JSX https://reactjs.org/docs/introducing-jsx.html

Elements https://reactjs.org/docs/glossary.html#elements

Components https://reactjs.org/docs/components-and-props.html

State https://reactjs.org/docs/state-and-lifecycle.html

Redux https://redux.js.org/

Rendering https://reactjs.org/docs/rendering-elements.html

Virtual DOM https://reactkungfu.com/2015/10/the-difference-between-virtual-dom-and-

dom/

JavaScript Bridge https://hackernoon.com/understanding-react-native-bridge-concept-e9526066ddb8

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Getting Started

Dependencies installieren:

- Android Studio, ADB und Android SDK und Build Tools
- React Native CLI

```
react-native init NAME react-native run-android
```

Live Reloading aktivieren durch schütteln des Geräts und auswählen der Option

Camera Example

Module installieren npm i react-native-camera

Module linken react-native link react-nativecamera

run-android neu ausführen

Berechtigungen nicht vergessen

github.com/thomasrehm/reactnativeapp-example

