REACTJS RENDER ANYWHERE?

STEPHEN WHITE

CADEC 2018.01.24 | CALLISTAENTERPRISE.SE



— ENTERPRISE —

CADEC APP



INSTALL - EXPO

CODE



https://github.com/callistaenterprise/cadec-2018-reactjs

AGENDA

- Multiple platforms
- Traditional methods
- Learn once write anywhere!
- Seperation of the dom React Native
- Shared code
- Demo
- Conclusions

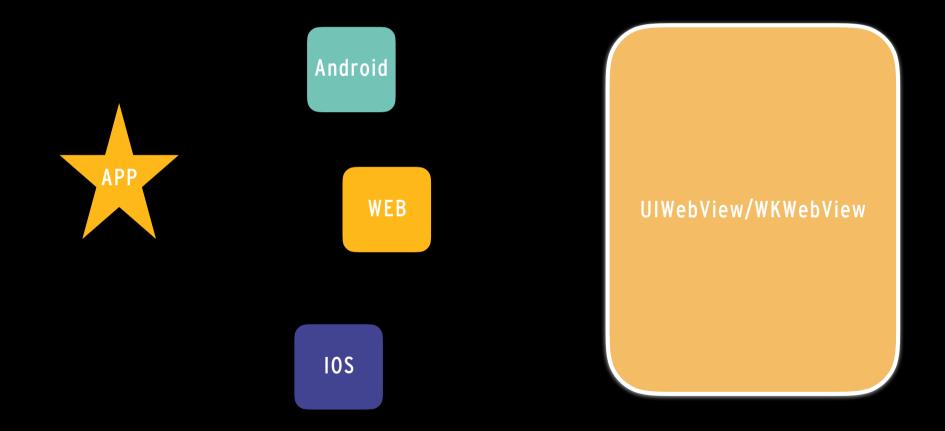
MULTIPLE PLATFORMS

• Multiple apps for each platform!



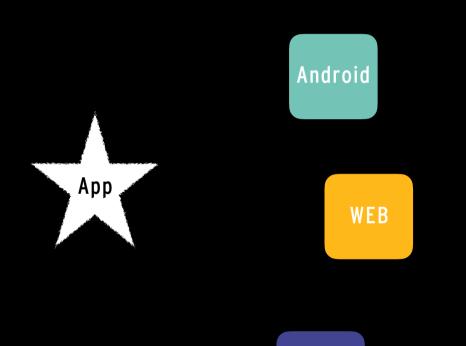
TRADITIONAL APPROACH

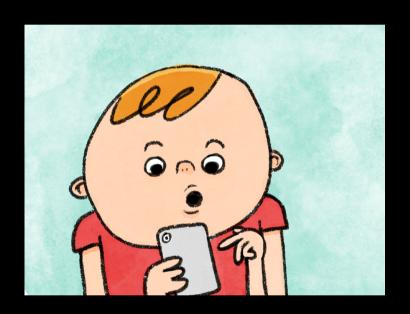
• One app to rule them all!



WE WANT 60FPS!!

• One app to rule them all, not quite...





105

CADEC APP

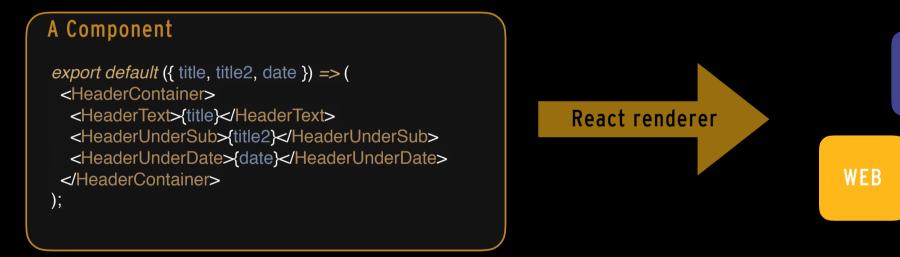


INSTALL - EXPO

LEARN ONCE WRITE ANYWHERE

- What is react?
 - Its a declarative way of visualising the state of your application.
 - When the state changes the views update.





105

LEARN ONCE WRITE ANYWHERE

- What is react?
 - Its a declarative way of visualising the state of your application.
 - When the state changes the views update.

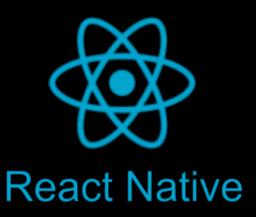


REACT VR REACT HARDWARE REACT NATIVE REACT DOM REACT OSX REACT WINDOWS REACT BLESSED

105

WEB

REACT NATIVE AND THE SEPARATION OF REACT-DOM

















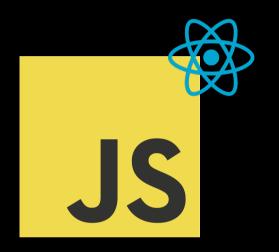


WHAT WE WANT TO ACHIEVE

WALMART ACHIEVED



REACT NATIVE



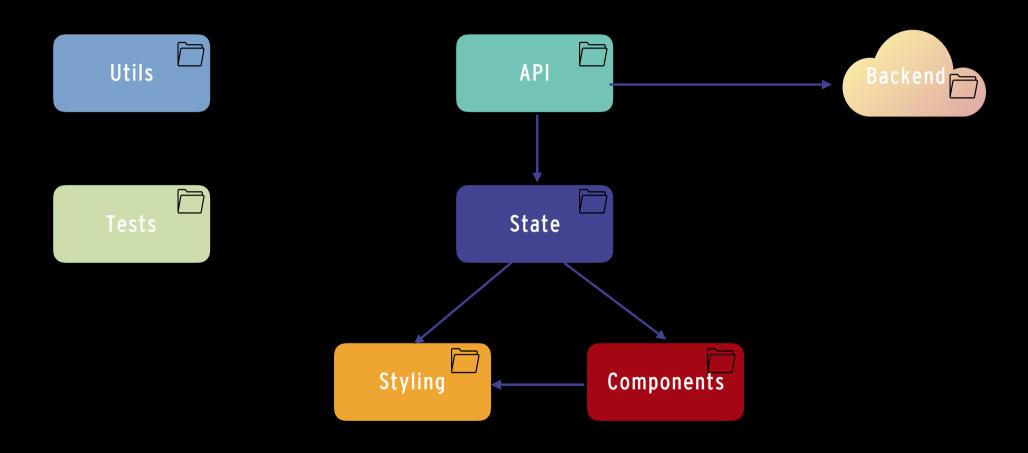


Android



105

SHARED CODE



SHARED CODE - REACT AND FRIENDS AWS JS GraphQL styled components yarn

APP.JS

```
Native

export default compose(
  LoadFontsHoc,
  ReduxProviderHoc,
  ApolloProviderHoc(store)
)(App);
```

```
web

export default compose(
ReduxProviderHoc,
ApolloProviderHoc(store))
(App);
```

STYLES Shared export const HeaderItemStyle = ` font-size: 35px; font-family: 'SparTakus'; font-style: normal; Native Web export const HeaderText = styled.span` export const HeaderText = styled.Text` \${styles.HeaderItemStyle};; \${styles.HeaderItemStyle}; color: #fff;

COMPONENTS - LEARN ONCE WRITE ANYWHERE - HEADER.JS

```
Native
 import React from "react";
 import {
  HeaderContainer.
  HeaderBackground.
  HeaderText.
  HeaderUnderSub.
  HeaderUnderDate
} from "cadec-2018-styles/native";
 export default ({ title, title2, date }) => (
  <HeaderContainer>
     <he><HeaderBackground /></hr>
   <headerText>{title}</headerText>
   <HeaderUnderSub>{title2}/HeaderUnderSub>
   <HeaderUnderDate>
  </HeaderContainer>
```

```
Web
import React from "react";
import {
 HeaderContainer.
 HeaderText.
 HeaderUnderSub.
 HeaderUnderDate
} from "cadec-2018-styles/web";
export default ({ title, title2, date }) => (
 <HeaderContainer>
  <HeaderText>{title}</HeaderText>
  <HeaderUnderSub>{title2}/HeaderUnderSub>
  <HeaderUnderDate>
 </HeaderContainer>
```

THE DEMO

DEVELOPER EXPERIENCE

PROS CONS

PROS

- Shared code base
- Utilise your web skills
- Amazing DX!
- Live code updating
- Modular and intuitive architecture
- Huge Community

CONS

- It's not Swift
- It's not Java/Kotlin
- Still need native experts
- Great for business applications but if you need that bespoke native feeling ..
- Startup performance

CONCLUSIONS

UTILISE YOUR WEB SKILLS DEVELOPER EXPERIENCE CUT COSTS GIVE THE KIDS 60FPS

OTHER REACT RENDERERS

- React Hardware http://iamdustan.com/react-hardware/
- React VR https://facebook.github.io/react-vr/
- React Native Windows https://github.com/Microsoft/react-native-windows
- React Native OSX https://github.com/ptmt/react-native-macos
- React Native https://facebook.github.io/react-native/
- React Dom https://reactjs.org

THE DEMO - FILE STRUCTURE - MONO REPO

- Cadec-2018-reactjs
 - API
 - Backend
 - Native
 - State
 - Styles
 - Utils
 - Web