

React Native Universal Apps

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Fullstack Developer

Overview

- What is React Native Universal Apps
- How to build an app
- Use cases and Benefits
- Deep dive and performance

React Native

Is a framework that allows you to build native apps for [ios, android, web, desktop, tv] using Javascript and React.

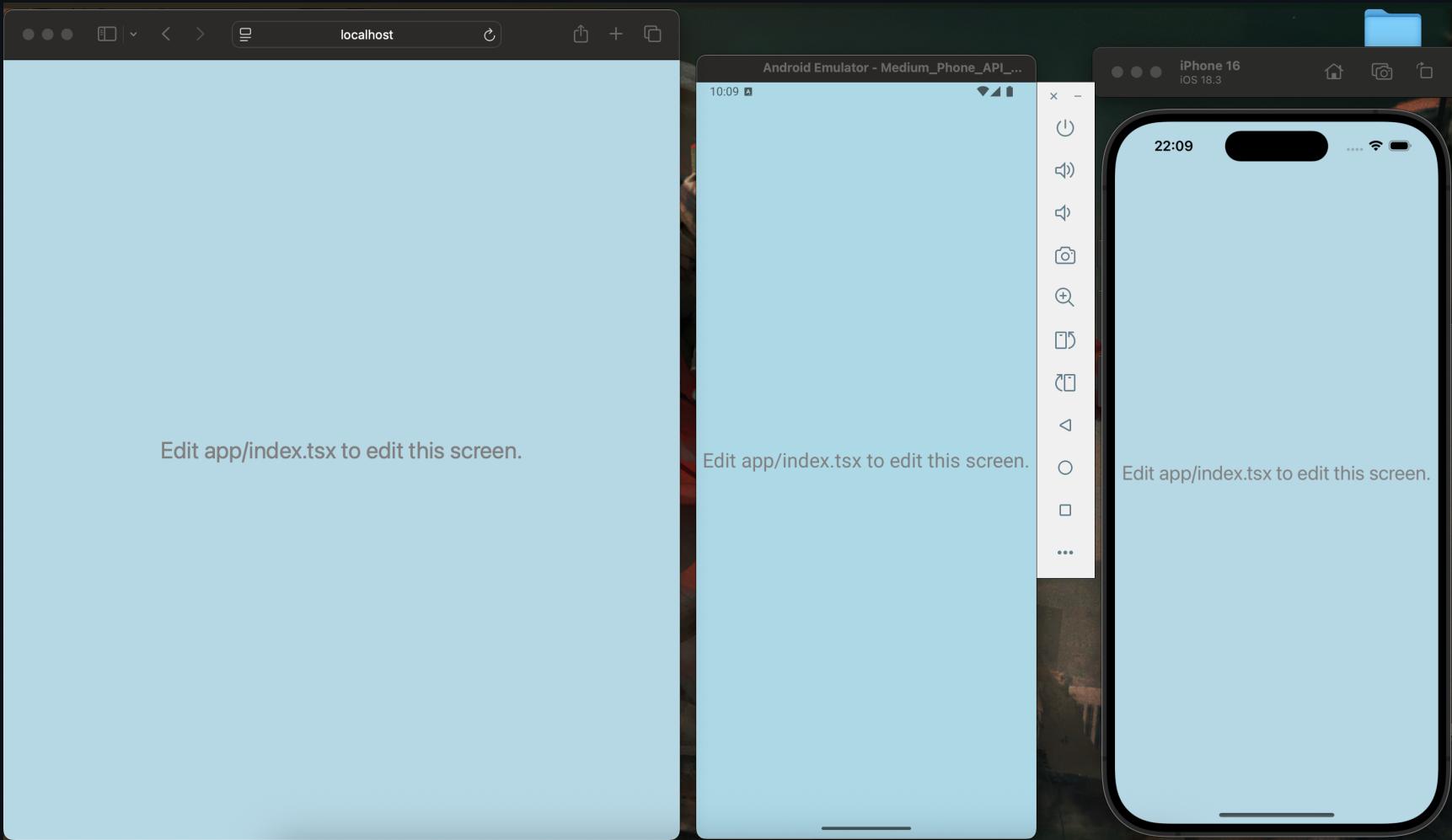
Init Expo App

```
npx create-expo-app@latest MyApp
```

Index/App

index.tsx

New Expo App



Browser HTML

```
<!DOCTYPE html>
<html lang="en">
  <script src="chrome-extension://jnlgamecbpmbajjfhammadkejkejdma/static/js/inpage.js"></script>
  > <head> ...
  > <body data-new-gr-c-s-check-loaded="14.1235.0" data-gr-ext-installed>
    > <div id="root"> ...
      > <div class="css-view-g5y9jx r-flex-13awgt0"> ...
        > <div class="css-view-g5y9jx r-flex-13awgt0"> ...
          > <div class="css-view-g5y9jx r-flex-13awgt0 r-bottom-1p0dtai r-left-1d2f490 r-position-u8s1d r-right-zchlnj r-top-ipm5af" style="background-color: #2e3436; color: white; display: flex; justify-content: center; align-items: center; height: 100%; width: 100%; font-size: 14px; font-weight: bold; padding: 10px; margin: 0; border: none; outline: none; border-radius: 0; transition: all 0.2s ease; ...
            > <div class="css-view-g5y9jx r-flex-13awgt0"> ...
              > <div class="css-view-g5y9jx r-flex-13awgt0"> ...
                > <div class="css-view-g5y9jx"> ...
                  > <div dir="auto" class="css-text-146c3p1">Edit app/index.tsx to edit this screen.</div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
    <script src="/node_modules/expo-router/entry.bundle?platform=web&dev=true&hot=false&lazy=true&transform.routerRoot=app" defer></script>
    <div style="position: fixed; left: 0px; top: 0px; width: 0px; height: 0px; z-index: -1; overflow: hidden; visibility: hidden; transition-duration: 0.05s; transition-property: padding; transition-delay: 0s; padding-top: env(safe-area-inset-top); padding-bottom: env(safe-area-inset-bottom); padding-left: env(safe-area-inset-left); padding-right: env(safe-area-inset-right);"></div>
    > <div id="loom-companion-mv3" ext-id="liecbddmkiiihnedobmlmillhodjkdm"> ...
    </body>
  > <grammarly-desktop-integration data-grammarly-shadow-root="true"> ...
  </grammarly-desktop-integration>
</html>
```

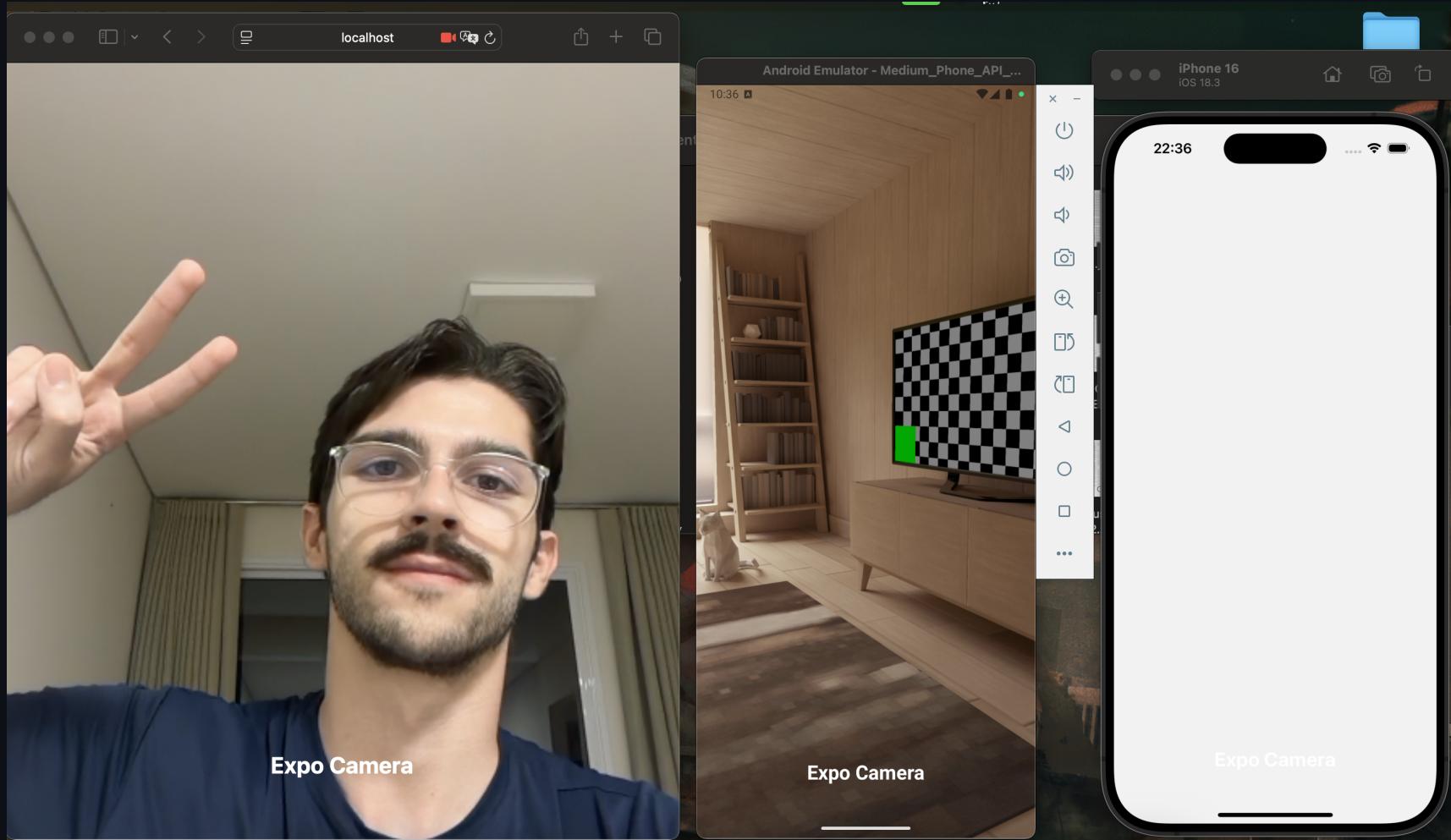
Expo Camera

```
import { CameraView } from "expo-camera";
import { StyleSheet, Text, TouchableOpacity, View } from "react-native";

export default function Camera() {
  return (
    <View style={styles.container}>
      <CameraView style={styles.camera}>
        <View style={styles.textContainer}>
          <Text style={styles.text}>Expo Camera</Text>
        </View>
      </CameraView>
    </View>
  );
}
```

Camera.tsx

Expo Camera



Features

- Native Views
- Native Modules

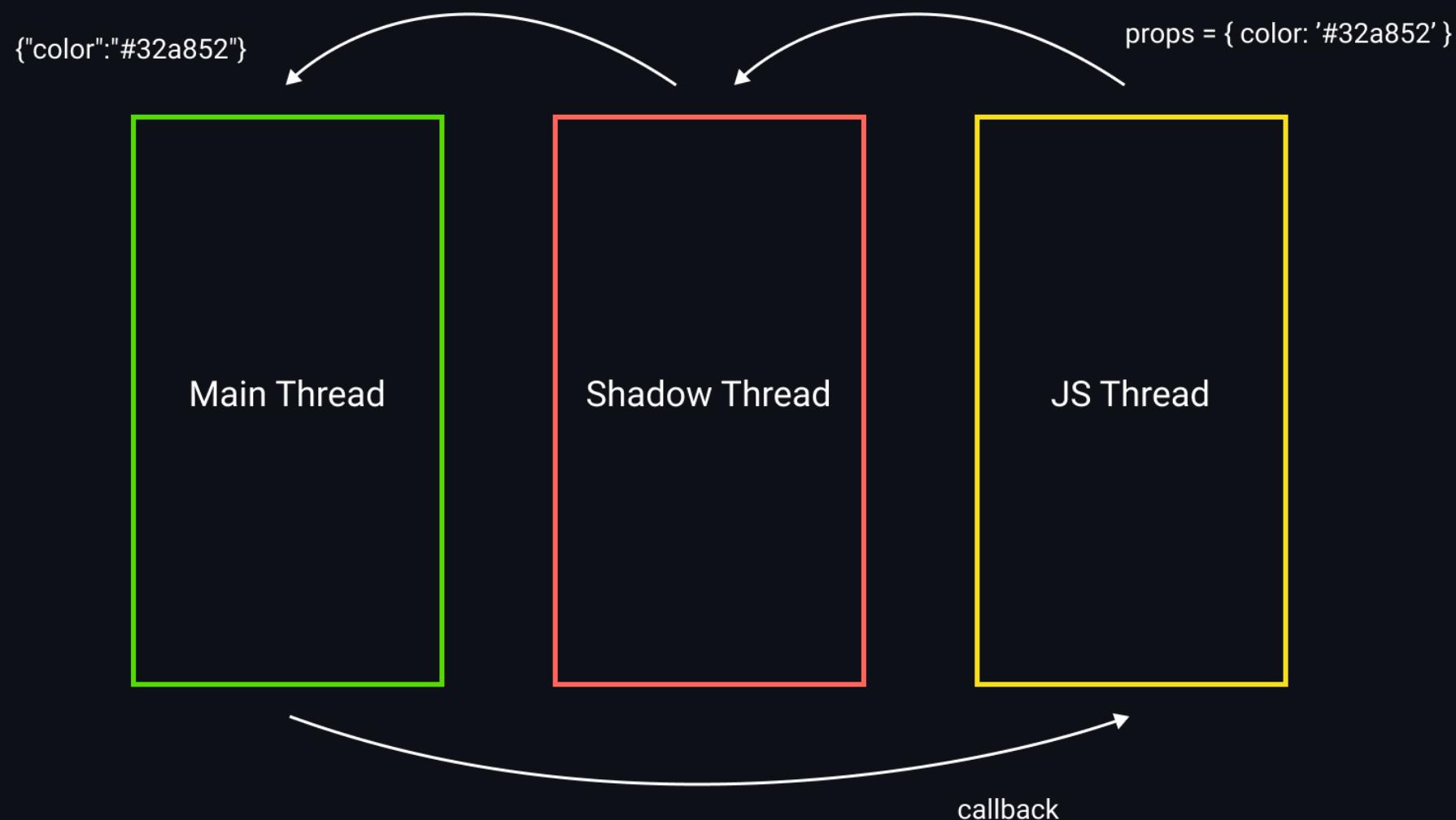
Packages

- react-native
- react-native-web
- react-native-windows
- react-native-macos
- react-native-tvos

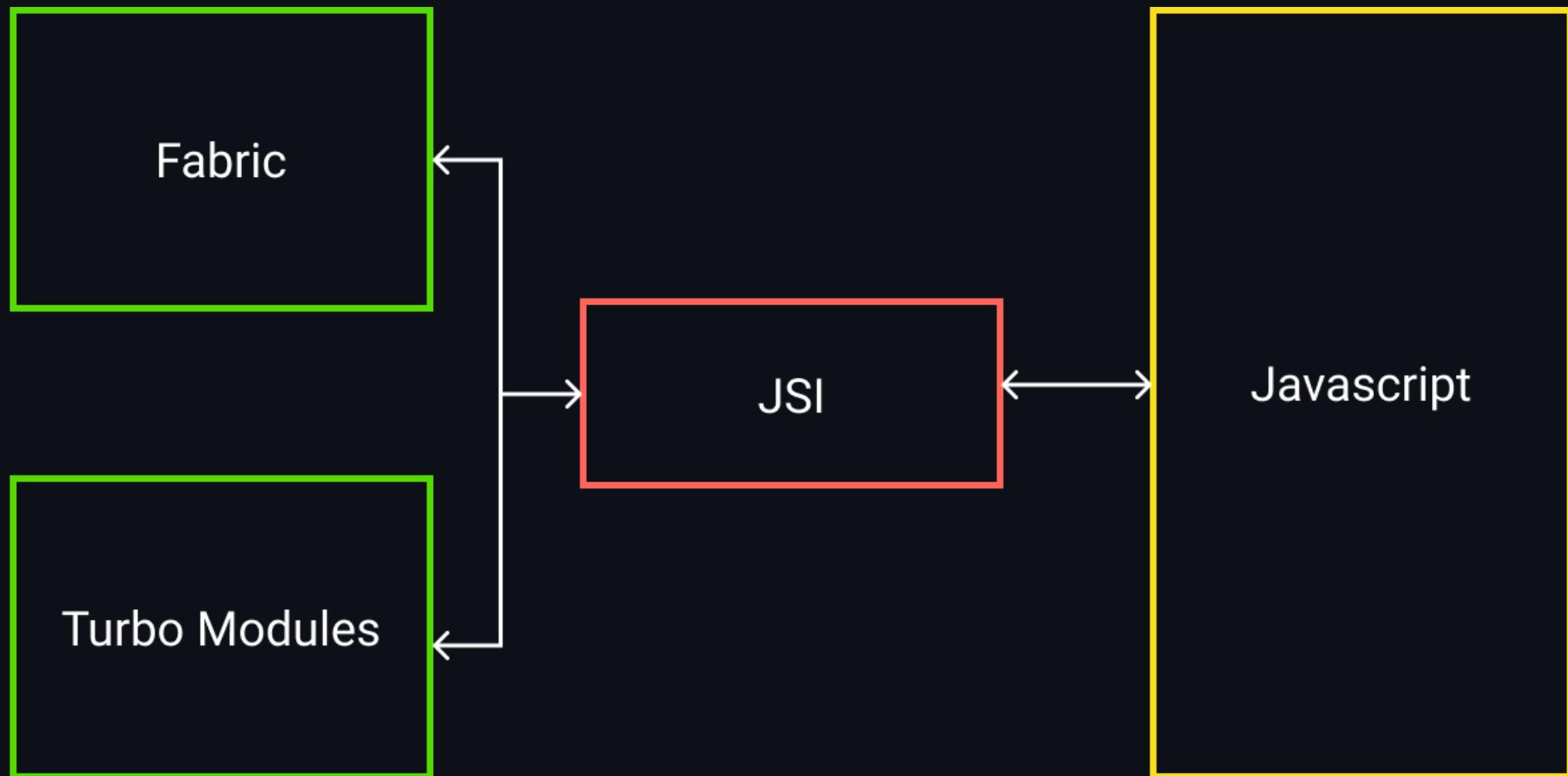
Who is using React Native Everywhere?



React Native Old Architecture



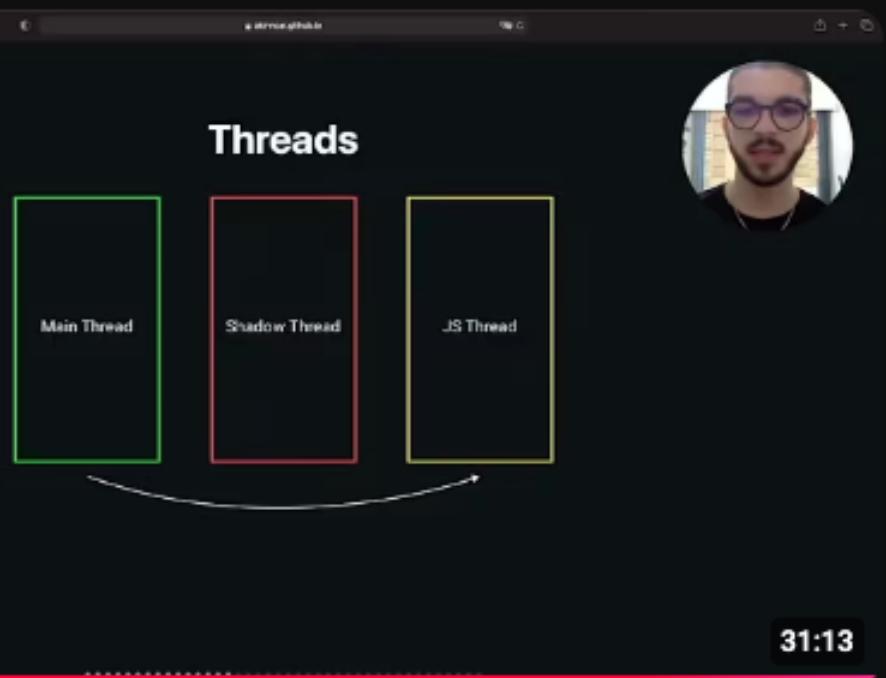
React Native Old Architecture



Browser Native Functions

```
> navigator.geolocation.getCurrentPosition  
< f currentPosition() { [native code] }
```

Talk about React Native Architecture



Arquitetura do React Native em 2021 com Akinn Rosa

1.4K views • 3 years ago

Comunidade React Brasil

Talk exibida na #ReactConfBR21 <https://reactconf.com.br>.

7 moments Native Component: Color View | Native Module: Sum | Sum Module Header (Objective-C++) | S

31:13

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Thanks!



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