



IPHONE ♥ ANDROID

REACT NATIVE COLOGNE

JANUARY 13, 2017

THOMAS
TRÄNKLER

THOMAS
KOLAR



React Native Munich ♥ Cologne

245 members - 5 meetups

114 members - 2 meetups

Partnership with Munich

- Munich & Cologne are **joining forces**: Collaboration on talks, speakers, and workshops

<https://www.meetup.com/de-DE/react-native-munich>

- **Thomas Kolar** is the new local organizer in Cologne while
- **Thomas Tränkler** is the organizer in Munich
- **SilverTours** is sponsoring the venue, food, and travel expenses in Cologne

React Natives App

- used as a learning vehicle for the workshop sessions will be developed together as an open source project

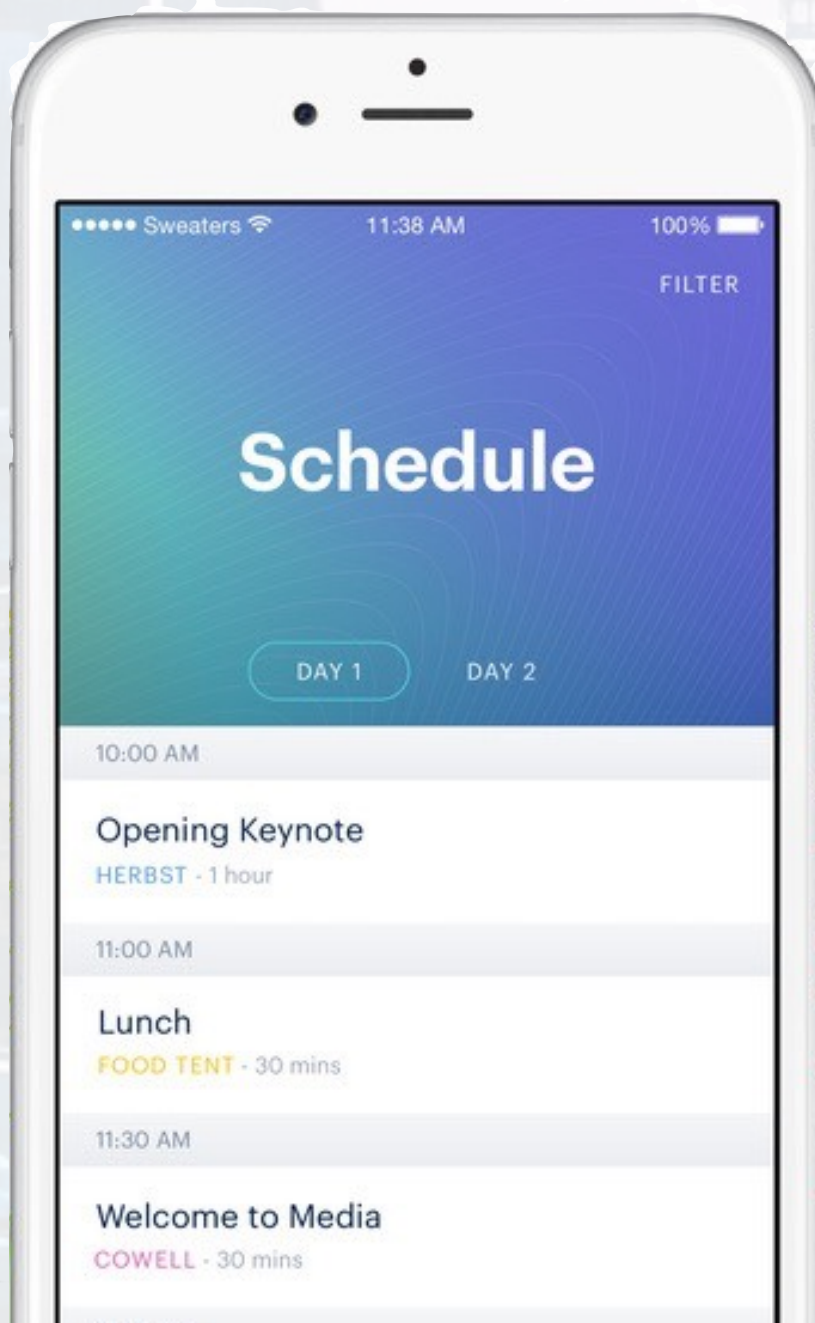
<https://github.com/react-natives>

- the app will serve as a **networking platform for React & React Native developers**
- you can join our **React Natives Slack** team (53 members so far) by approaching one of the organizers
@cevapsushi - Thomas Kolar
@thomas - Thomas Tränkler



How native is React Native?

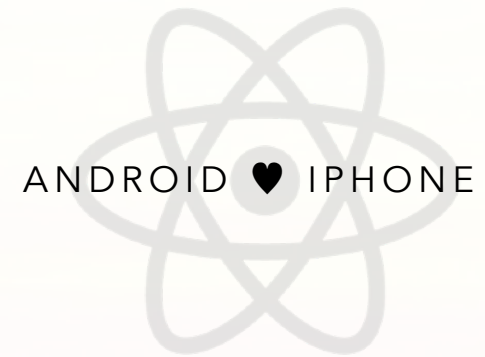
„F8“ App App Store / Google Play



```
1 import React, { Component, } from 'react';
2 import {
3   AppRegistry,
4   StyleSheet,
5   Text,
6   View,
7 } from 'react-native';
8
9 class App extends Component {
10   render() {
11     return (
12       <View style={styles.container}>
13         <Text style={styles.welcome}>
14           Welcome to React Native!
15         </Text>
16       </View>
17     );
18   }
19 }
20
21 const styles = StyleSheet.create({
22   container: {
23     flex: 1,
24     justifyContent: 'center',
25     alignItems: 'center',
26     backgroundColor: '#F5FCFF',
27   },
28   welcome: {
29     fontSize: 20,
30     textAlign: 'center',
31     margin: 10,
32   },
33 });
34
35 AppRegistry.registerComponent('App', () => App);
```


React Native: Universal Javascript

Unite Web + iOS + Android + Node.js developers



- React Native = **Javascript ES6 + React + native components**
- **Developing 3x the same App** for Web, iOS and Android **sucks** up your time & budget and you end up with a quality vs. marketshare trade-off
- React Native Apps **run on both iOS + Android** from a single Javascript codebase
- WTF Javascript? — **not a webview approach** like Cordova - real and unlimited native components
- **native look & feel** - does not ignore platform difference, **no framework lock-in**: can live side by side with native Java Android or ObjC / Swift iOS code or even C++ in the same project

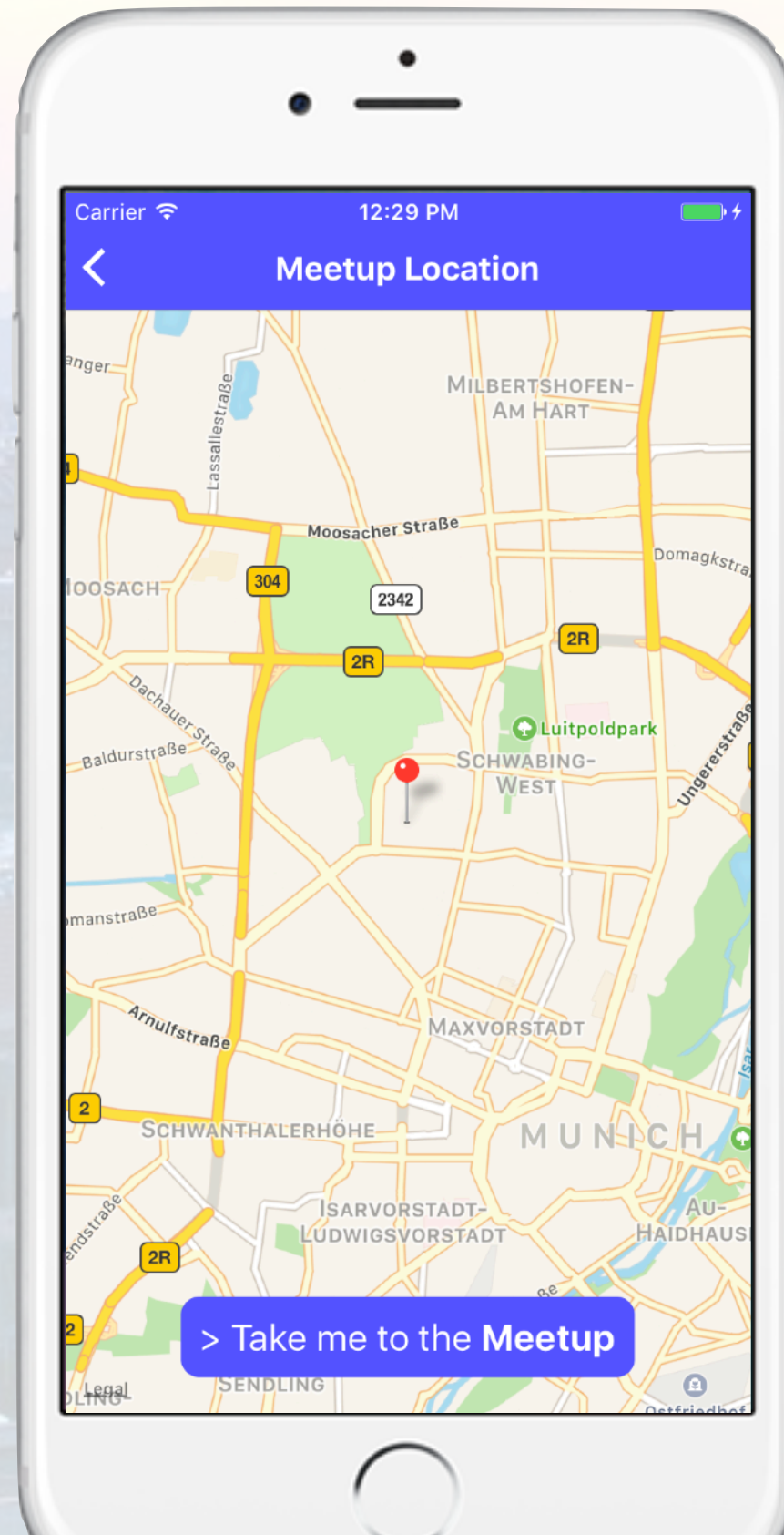
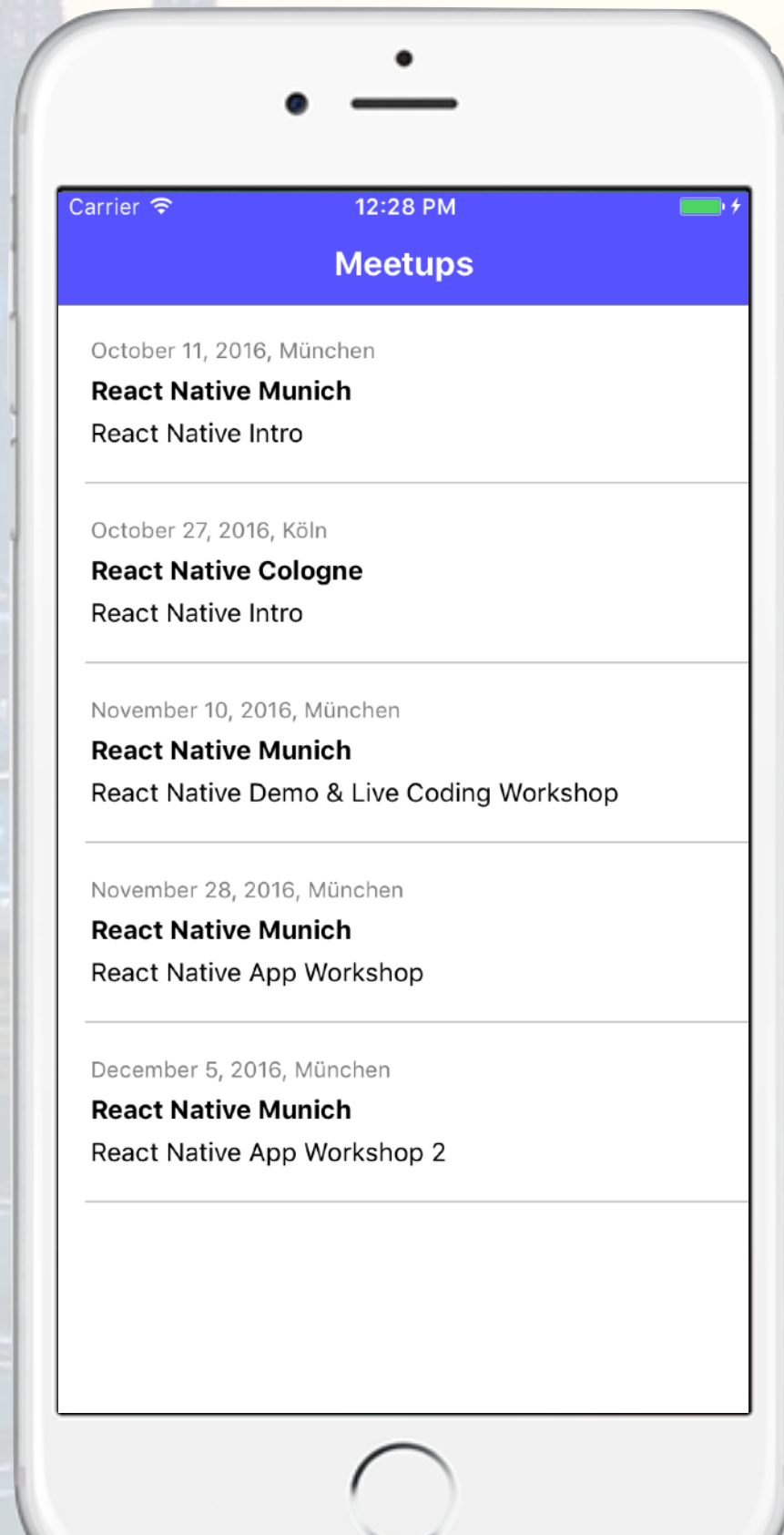
- **quick learning curve**
„learn once write everywhere“
~~write once run anywhere~~
- **quick development cycles** with instant feedback - hot reload replaces your code while the app is running, no need to recompile or restart
- **built upon React** using virtual DOM, but instead of HTML with **native components and touch events**
- **open source**, backed by Facebook
- **used in real apps**, despite being experimental:

Facebook, Instagram, SoundCloud, Spotify, AirBnB, Wix, ...

React Natives App

github.com/react-natives

workshop on an open source app for the React community



React Native Web

vs.

React Native

The image compares the development experience for React Native Web and React Native. On the left, the 'List.js - Web' editor shows a web browser view of a list of events. On the right, the 'list.js - App' editor shows a mobile app view of the same data. Both editors display the same JavaScript code for a list component, but the right editor includes additional code for a mobile app, such as a header and a list of events.

Left Editor (List.js - Web):

```
57 color: 'black'
58 };
59
60 styles = Styles
61
62 class List extends React.Component {
63
64   constructor(props) {
65     super(props);
66     const { data } = props;
67     this.state = {
68       dataSource: data,
69     };
70     this._renderRow = this._renderRow.bind(this);
71     this._pressRow = this._pressRow.bind(this);
72   }
73
74   _pressRow(row) {
75   }
76
77   _renderRow(row) {
78     return (
79       <TouchableHighlight>
80         <Text style={styles.text}>
81           {moment(rowData.time).format('LL')}
82         </Text>
83       </TouchableHighlight>
84     );
85   }
86 }
```

Right Editor (list.js - App):

```
17 Alert
18 } from 'react-native';
19 import { Actions } from 'react-native-router-flux';
20 import moment from 'moment';
21
22 class List extends React.Component {
23
24   constructor(props) {
25     super(props);
26     const { data } = props;
27     this.state = {
28       dataSource: data,
29     };
30     this._renderRow = this._renderRow.bind(this);
31     this._pressRow = this._pressRow.bind(this);
32   }
33
34   _pressRow(row) {
35     Actions.map(rowData, () => {
36       // ...
37     });
38   }
39
40   _renderRow(row) {
41     let rowHash = moment(rowData.time).format('LL');
42     return (
43       <TouchableHighlight>
44         <Text style={styles.text}>
45           {moment(rowData.time).format('LL')}
46         </Text>
47       </TouchableHighlight>
48     );
49   }
50 }
```

Web View (Left):

Thomas

local...

October 11, 2016, München
React Native Munich
React Native Intro

October 27, 2016, Köln
React Native Cologne
React Native Intro

November 10, 2016, München
React Native Munich
React Native Demo & Live Coding Workshop

November 28, 2016, München
React Native Munich
React Native App Workshop

December 5, 2016, München
React Native Munich
React Native App Workshop 2

App View (Right):

iPhone 6 – iOS 10.2 (14C89)

Carrier 1:44 PM

Meetups

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