

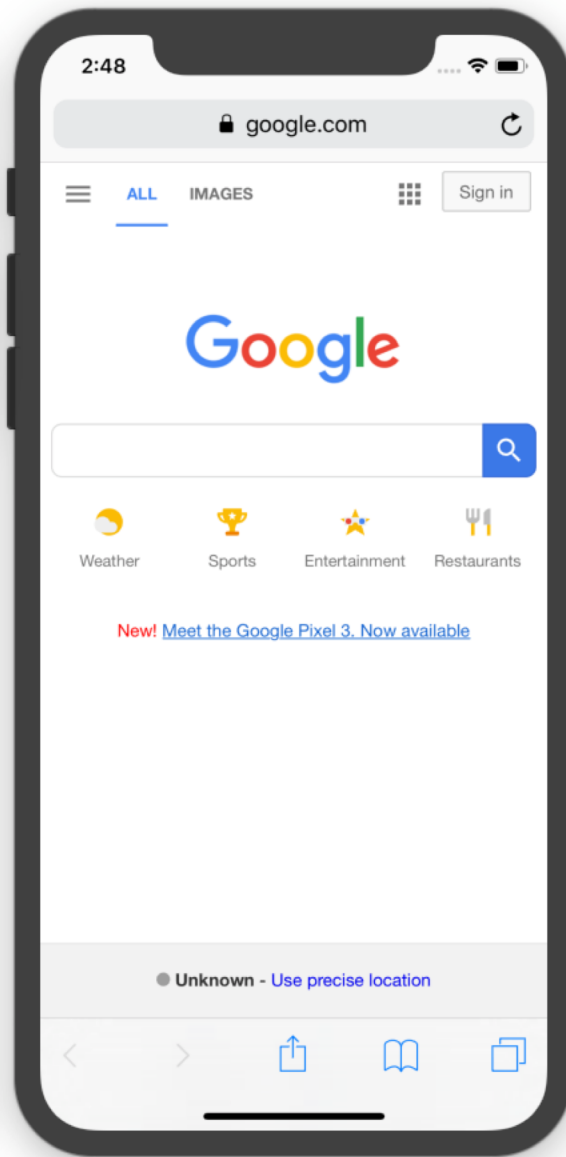
One Project. One Language. Three Apps.

TJ VanToll (@tjvantoll)

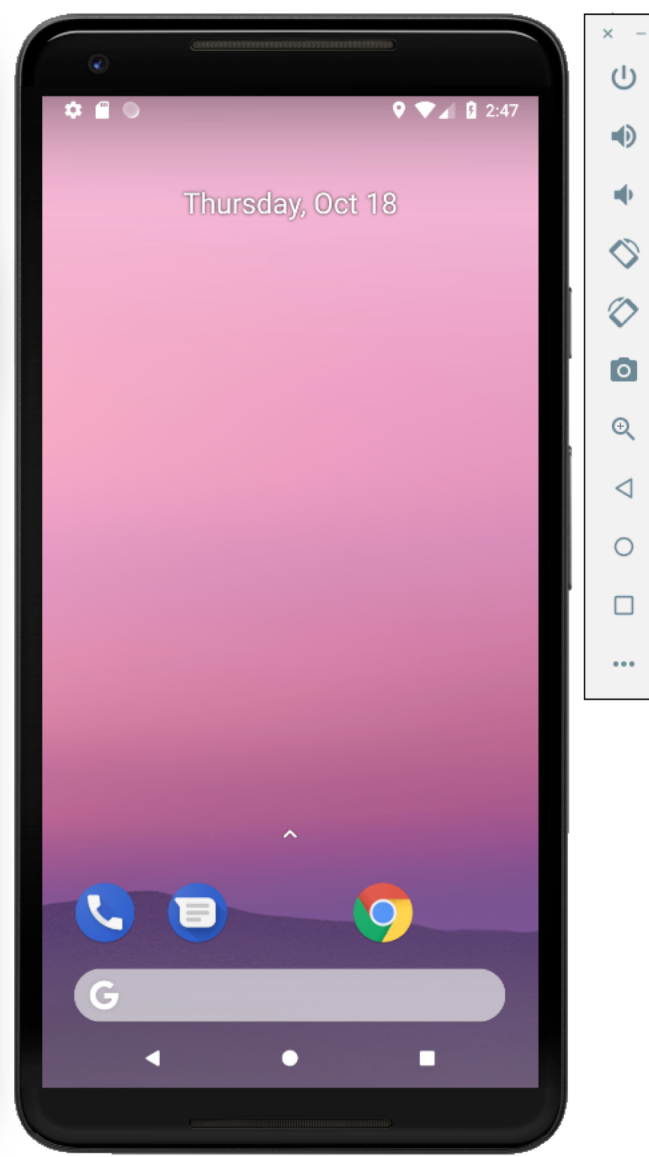
iOS



Web

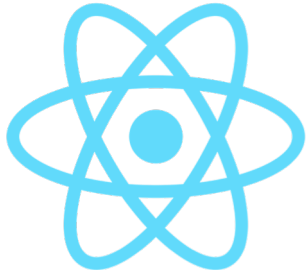


Android



Agenda

- Background (~15 minutes)
- Demos (~25 minutes)



Web vs. Native

What Progressive Web Apps Me X

https://developer.telerik.com/featured/what-progressive-web-apps-me

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What Progressive Web Apps Mean for the Web

Opinion by

 TJ VanToll

December 14, 2015

5 Comments



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In Defense of Large Native Apps

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In Defense of Large Native Apps

Opinion by  TJ VanToll | February 8, 2017 | 3 Comments




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Native mobile apps binaries can be big, and for developers, especially web developers, it's easy to poke fun at just how large these applications are.

 Zach Leatherman

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January 22, 2018

TJ
VanToll

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Focused on Our Future

Choosing Mobility Options in 2018

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App Development


Choosing Between Progressive Web Apps, React Native & NativeScript in 2018

by TJ VanToll | February 05, 2018 | 2 Comments






If you are a JavaScript developer, you have never had more options for building mobile apps. You can build for the web with a Progressive Web App, build a hybrid app using Cordova, build native iOS and Android apps using frameworks like [NativeScript](#) or [React Native](#), or choose some combination of all of these things.


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Web vs. Native

Native Benefit: User behavior

"Apps account for over 90% of internet time on smartphones and 77% of internet time on tablets."

Source: <https://www.emarketer.com/content/mobile-time-spent-2018>

Web Benefit: Reach and ease of access

The average mobile web property captures 2.2x more monthly unique visitors than the average mobile app.

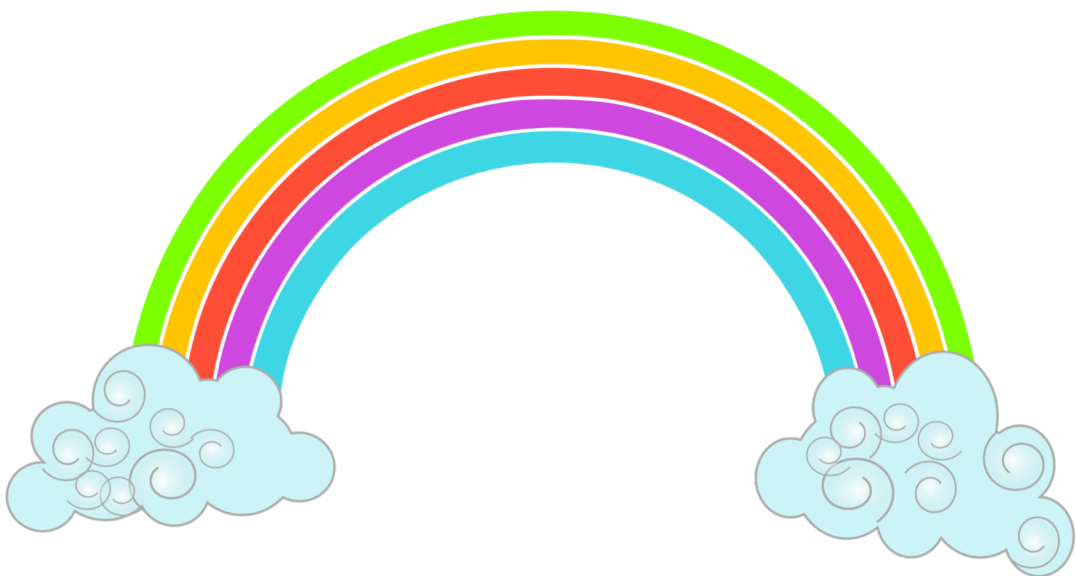
Web vs. Native

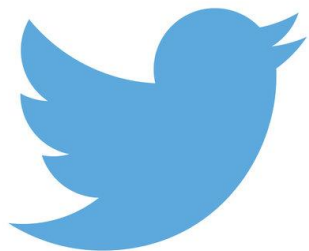
~~Web vs. Native~~



Both

~~Web vs. Native~~





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Web vs. Native

Approaches

- 1) React Native Web 

- 2) NativeScript Schematics  

React Native 0.57

[Docs](#) [Community](#) [Blog](#)

React Native

Build native mobile apps using JavaScript and React

Get Started

Learn the Basics

Build native mobile apps using JavaScript and React

React Native lets you build mobile apps using only JavaScript. It uses the same design you compose a rich mobile UI from declarative components.

```
import React, { Component } from 'react';
import { Text, View } from 'react-native';

class WhyReactNativeIsSoGreat extends Component {
  render() {
    return (
      <View>
        <Text>
          If you like React on the web, you'll like React Native.
        </Text>
        <Text>
          You just use native components like 'View' and 'Text',
          instead of web components like 'div' and 'span'.
        </Text>
      </View>
    );
  }
}
```

Join the NativeScript Challenge on Uplabs and win \$3000 in prizes!

 NativeScript

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Create Native iOS and Android Apps With JavaScript

Open source framework for building truly native mobile apps with Angular, Vue.js, TypeScript, or JavaScript.

Get Started

► Why NativeScript?



Angular

NativeScript features deep integration with modern Angular



Vue.js

Now you can build native mobile applications using Vue.js and use



JavaScript, TypeScript

Want to code your wa NativeScript provides



```

11 export default class App extends React.Component {
12     render() {
13         return (
14             <View style={styles.container}>
15                 <Text style={styles.paragraph}>
16                     Change code in the editor and watch it change
17                 </Text>
18                 <Card title="Local Modules">
19                     <AssetExample />
20                 </Card>
21             </View>
22         );
23     }
24 }

```

```

1 <ActionBar title="Home" class="action-bar">
2 </ActionBar>
3
4 <GridLayout>
5     <ScrollView class="page">
6         <StackLayout class="home-panel">
7             <!--Add your page content here-->
8             <Label textWrap="true" text="Play with NativeScript!"
9             <Label textWrap="true" text="Write code in the editor
10                 class="h2 description-label"></Label>
11             <Label textWrap="true" text="Scan the QR code with you
12                 class="h2 description-label"></Label>
13         </StackLayout>
14     </ScrollView>
15 </GridLayout>

```


Approaches

- 1) React Native Web 

- 2) NativeScript Schematics  

GitHub - necolas/react-native-web

GitHub, Inc. (US)

https://github.com/necolas/react-native-web

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react-web

react-native

react-components

ui-framework

css-in-js

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🌿 6 branches

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📄 MIT

Branch: master

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[change] introduce Jest preset

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📁 types

[change] MIT license

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📄 .babelrc

[fix] babel-plugin support for 'react-native-web' module name

10 months ago

📄 .eslintignore

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5 months ago

📄 .eslintrc

Update eslint globals

5 months ago

📄 .flowconfig

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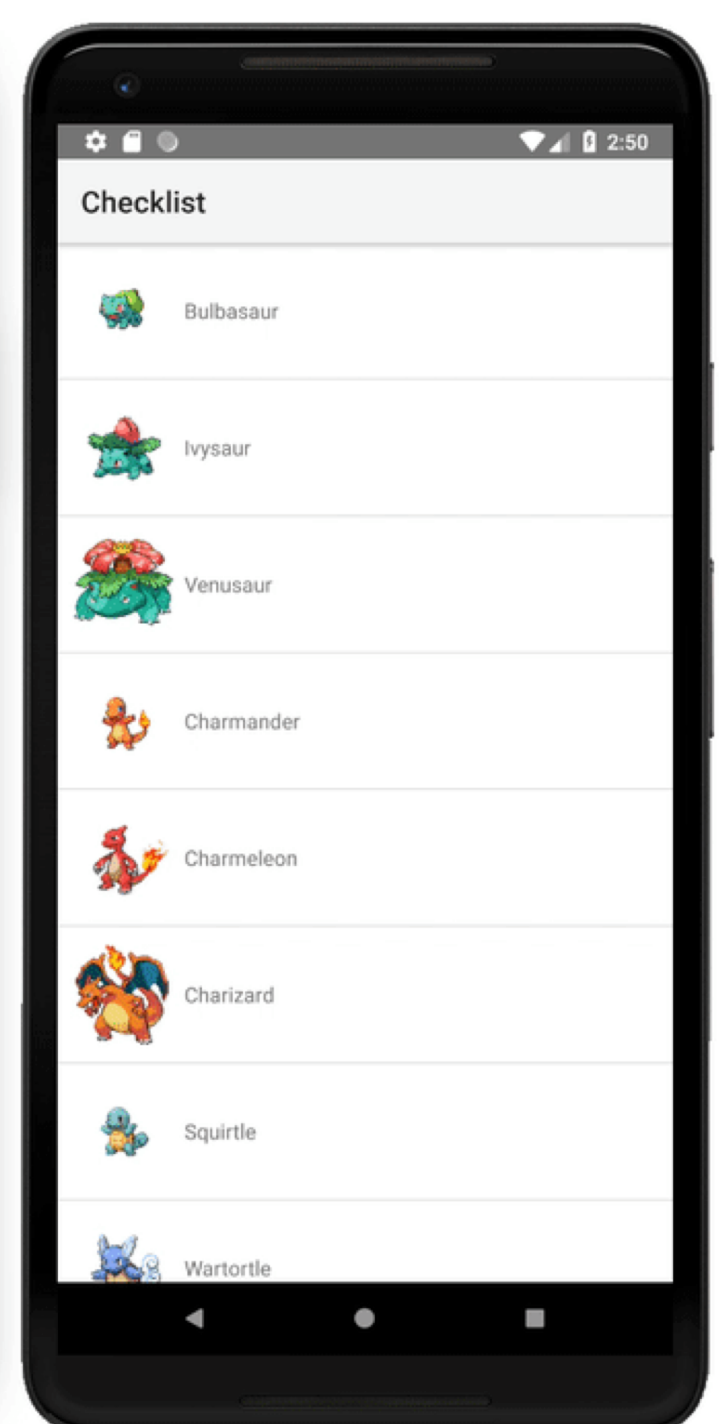
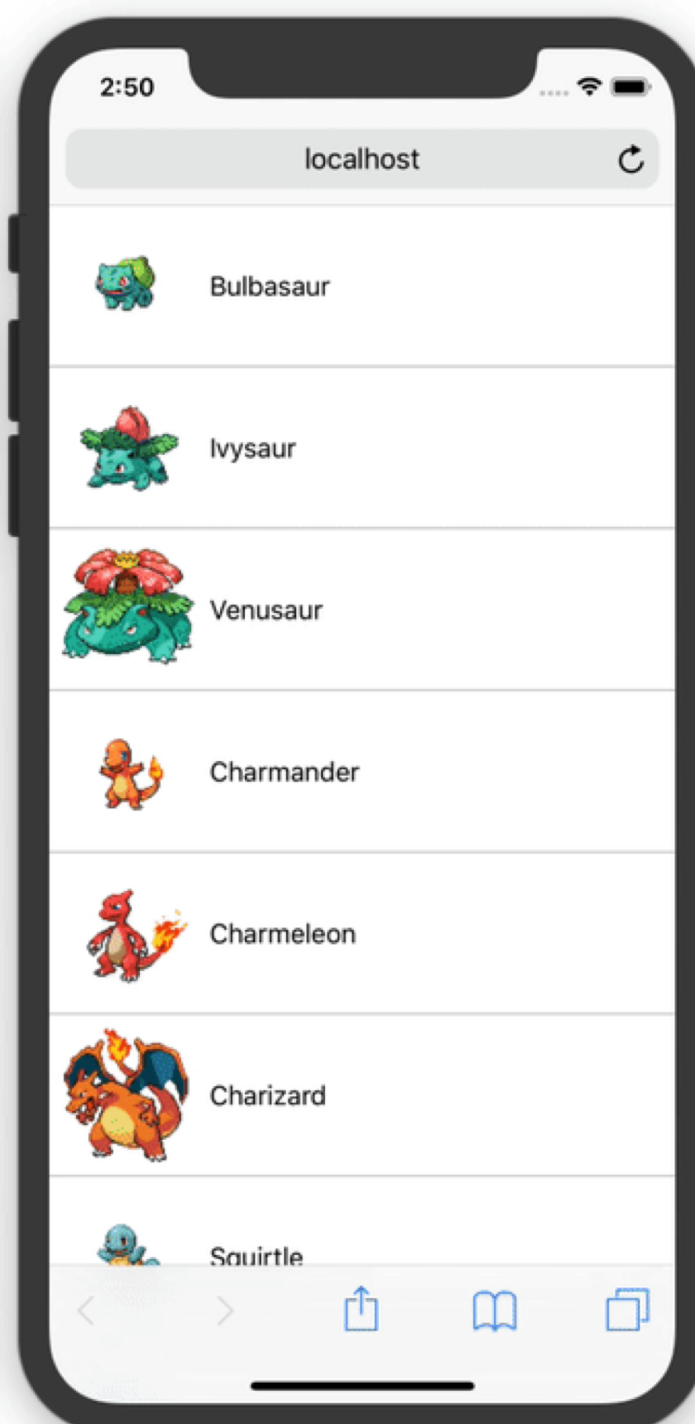
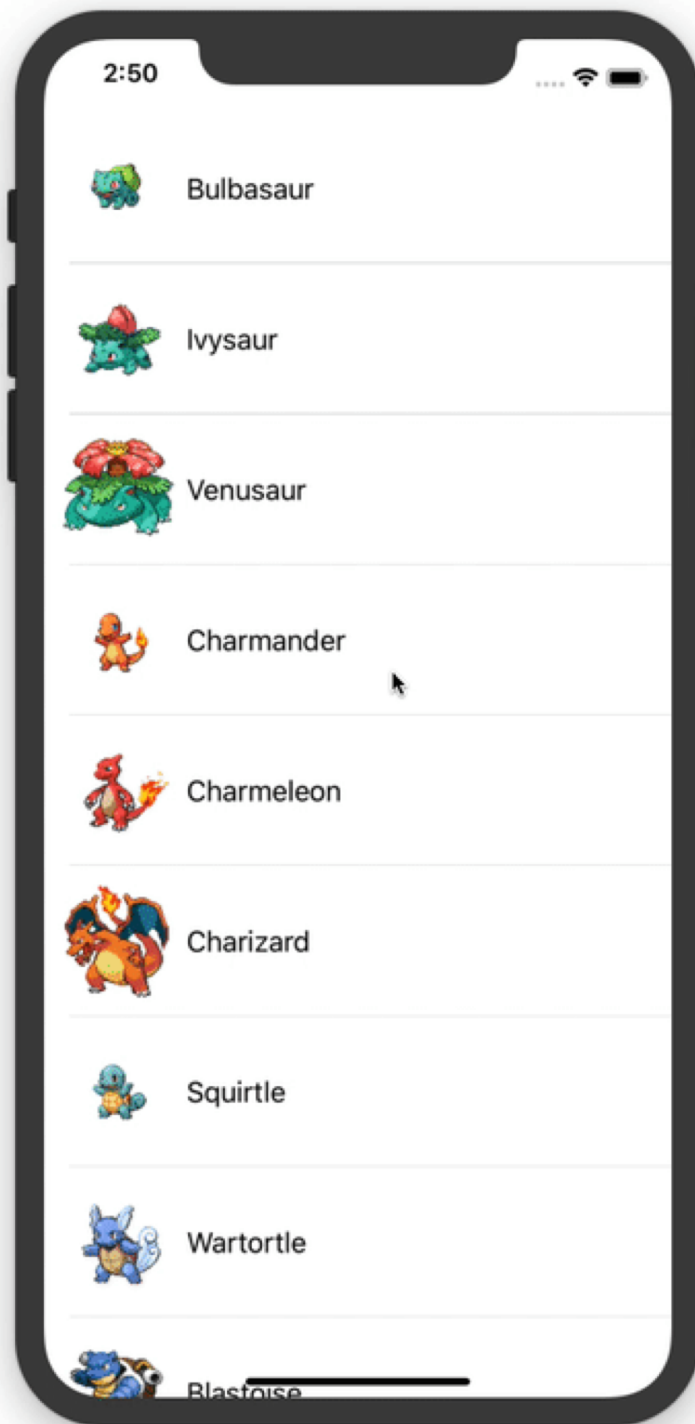
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📄 yarn.lock

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First, some background: since the beginning of Angular, you could use



Demo



GitHub - necolas/react-native-web

GitHub, Inc. (US)

https://github.com/necolas/react-native-web

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Migrating a Web project

https://docs.nativescript.org/angular/code-sharing/migrating-a-web-project

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Migrating A Web Project

Build Process

Code Splitting

Platform-Specific Components

TOOLING

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CODE SHARING / Migrating a Web project

Migrating existing Angular Web projects

It is possible to migrate an existing Angular Web project to a code-sharing structure. This can be done with Angular CLI's **ng add** command and NativeScript Schematics.

Project Requirements

You need to use the latest version of **NativeScript CLI**

Your project's node modules need to be using Angular v6 or newer.

NativeScript CLI

Follow the [installation instructions](#) to install **NativeScript CLI**.

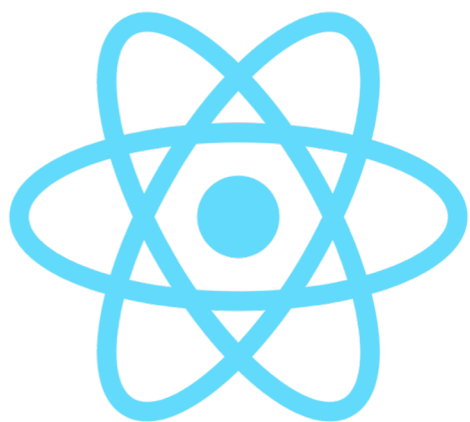
Angular CLI

Your **@angular/cli** install should be at **6.1.0** or newer.

To update the Angular CLI version your project uses, you can run:

```
npm i --save-dev @angular/cli
```

Angular packages



What do you think?

Thanks!
[@tjvantoll](#)

