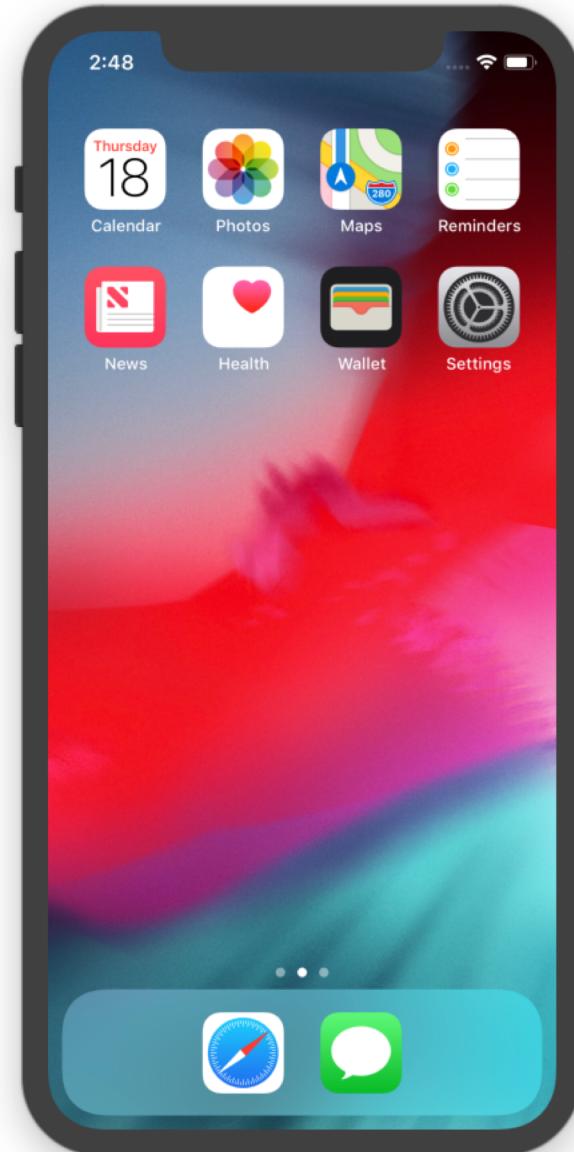


# One Project. One Language. Three Apps.

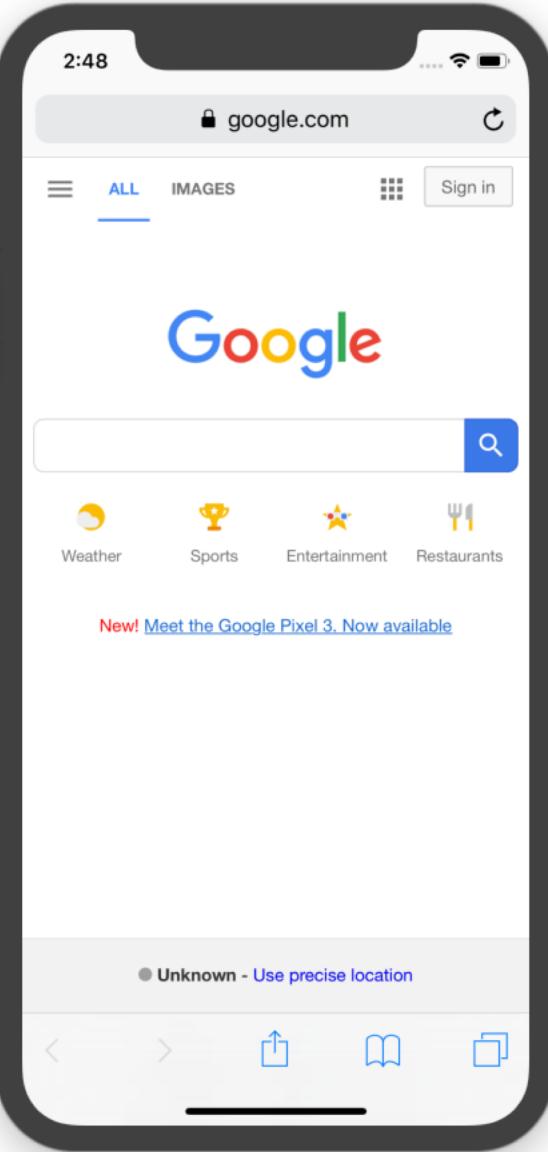
TJ VanToll (@tjvantoll)



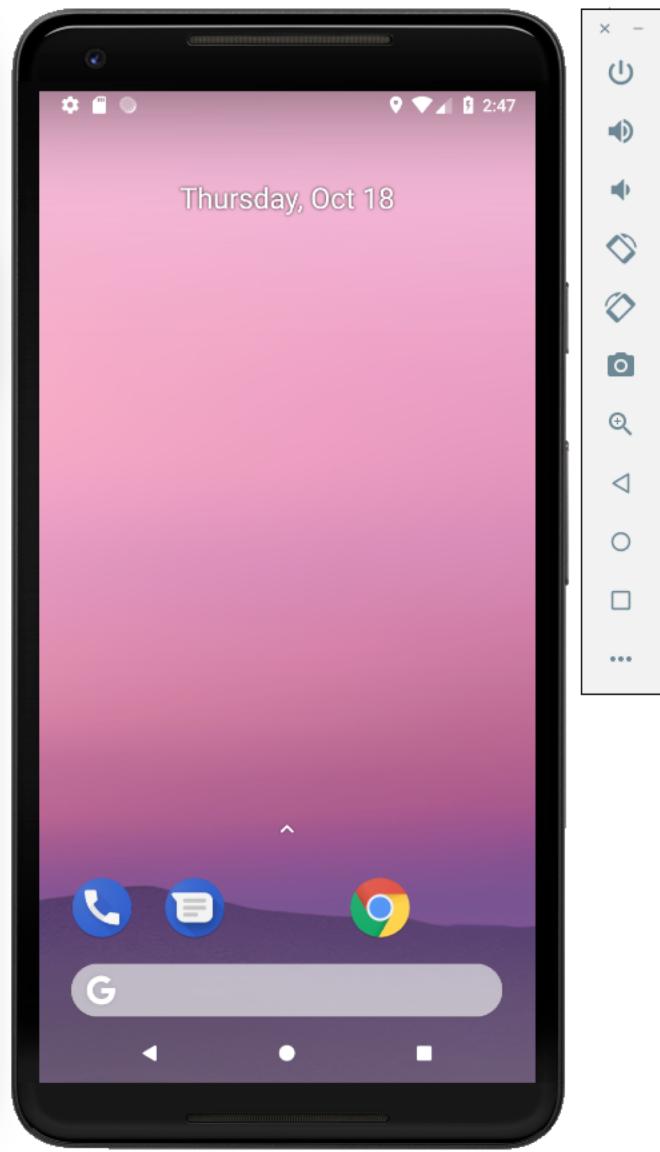
# iOS



# Web

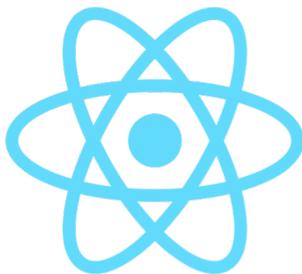


# Android



# Agenda

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



# Web vs. Native

What Progressive Web Apps Mean

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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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**Focused on Our Future**

Choosing Mobility Options in 2018

https://www.progress.com/blogs/choose-between-progressive-web-apps-react-native-nativescript-2

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# 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.

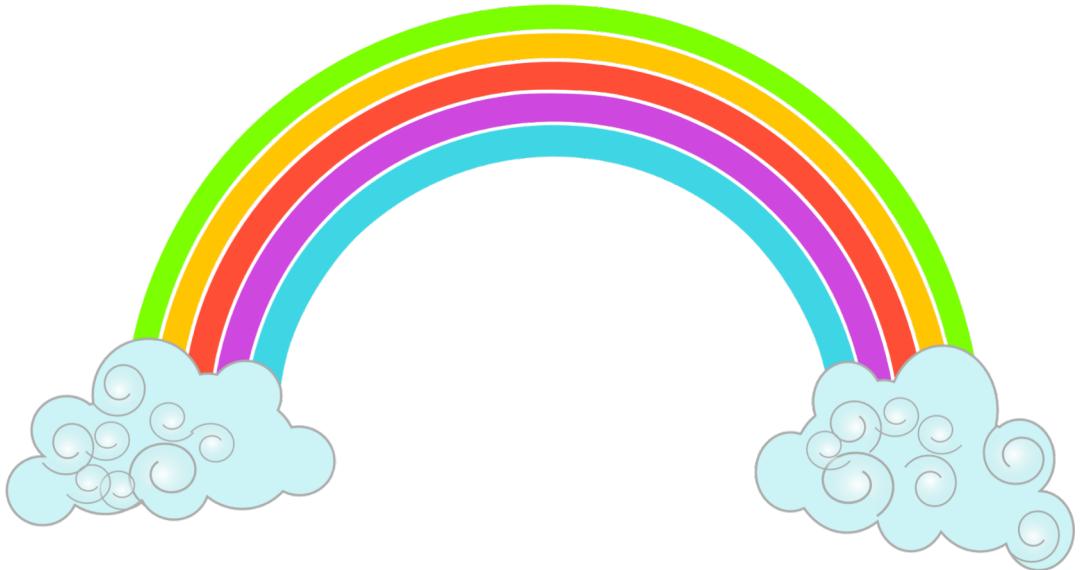
Source: <https://www.slideshare.net/comScoremarcom/2017-us-mobile-app-report>

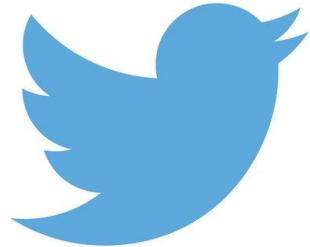
# Web vs. Native

~~Web vs. Native~~



Both  
~~Web vs. Native~~





NETFLIX



Google Maps

amazon

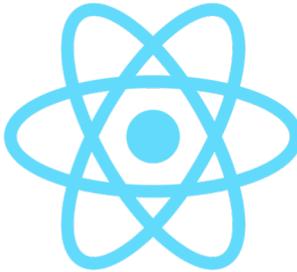
hulu



# Web vs. Native

# Approaches

- 1) React Native Web
- 2) NativeScript Schematics



React Native - A framework for ... X +

https://facebook.github.io/react-native/

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 principles as React, so you can 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>
    );
  }
}
```

N Native mobile apps with Angular X +

https://www.nativescript.org

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

N 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, and more**  
Want to code your way? NativeScript provides



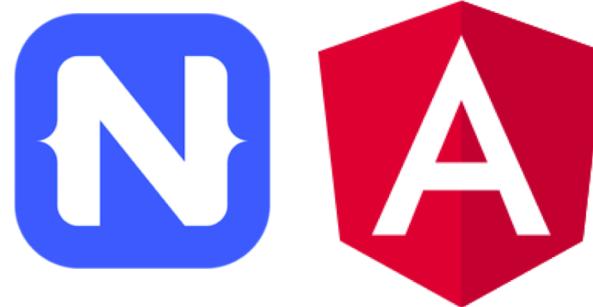
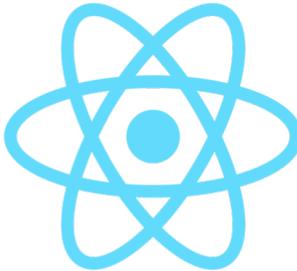
```
11 export default class App extends React.Component {  
12   render() {  
13     return (  
14       <View style={styles.container}>  
15         <Text style={styles.paragraph}>  
16           Change code in the editor and watch it change  
17         </Text>  
18         <Card title="Local Modules">  
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" class="h2 description-label"></Label>  
10       <Label textWrap="true" text="Scan the QR code with your phone" class="h2 description-label"></Label>  
11     </StackLayout>  
12   </ScrollView>  
13 </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 Native for Web <https://necolas.github.io/react-native-web/>

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1,272 commits 6 branches 180 releases 74 contributors MIT

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**necolas 0.9.3** Latest commit d6e8530 10 days ago

File	Description	Time Ago
.github	Reorganize documentation	a month ago
docs/guides	Reorganize documentation	a month ago
packages	0.9.3	10 days ago
scripts	[change] introduce Jest preset	5 months ago
types	[change] MIT license	8 months ago
.babelrc	[fix] babel-plugin support for 'react-native-web' module name	10 months ago
.eslintignore	Add React Native examples app	5 months ago
.eslintrc	Update eslint globals	5 months ago
.flowconfig	Add React Native examples app	5 months ago
.gitignore	Monorepo	10 months ago
.prettierignore	Add React Native examples app	5 months ago
.travis.yml	Monorepo	10 months ago
LICENSE	[change] MIT license	8 months ago
README.md	Update the Docz integration link	a month ago
package.json	0.9.3	10 days ago
year-lock	[enhancement] Support React DOM 16.5	a month ago

A Apps That Work Natively on the Web and Mobile

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## Apps That Work Natively on the Web and Mobile

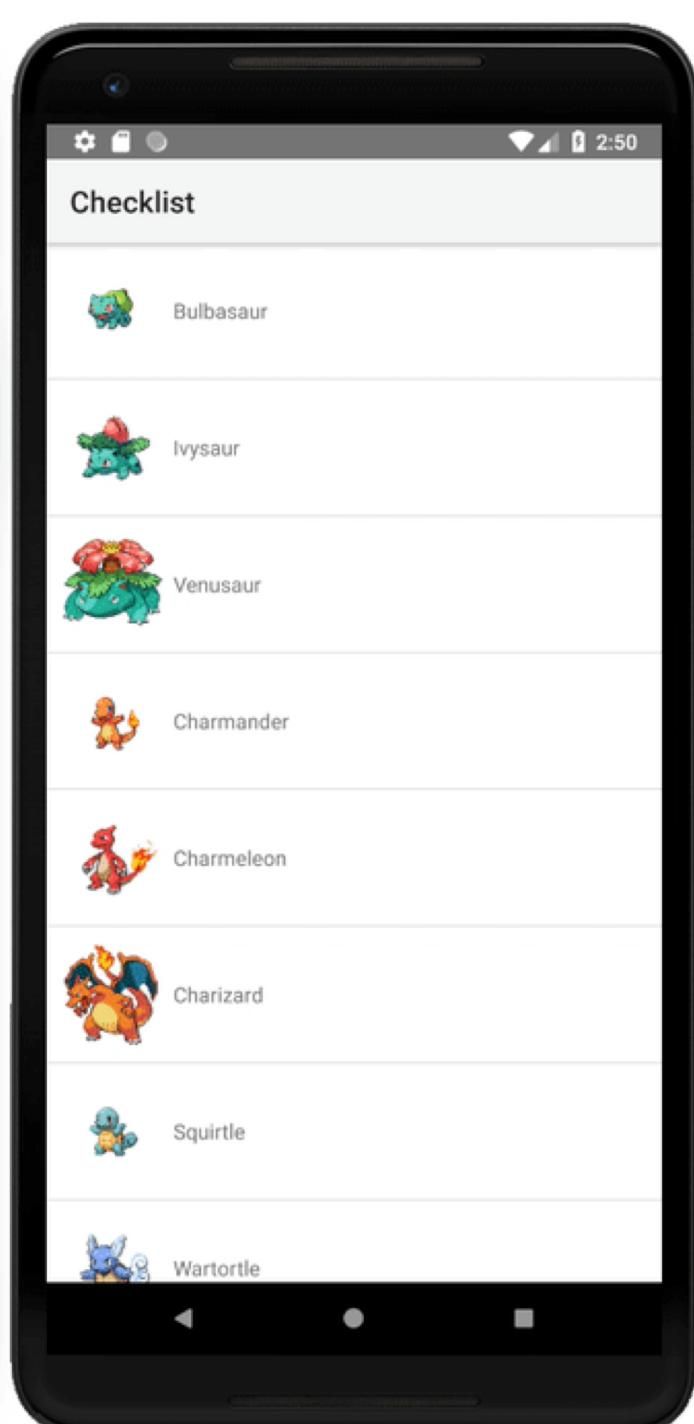
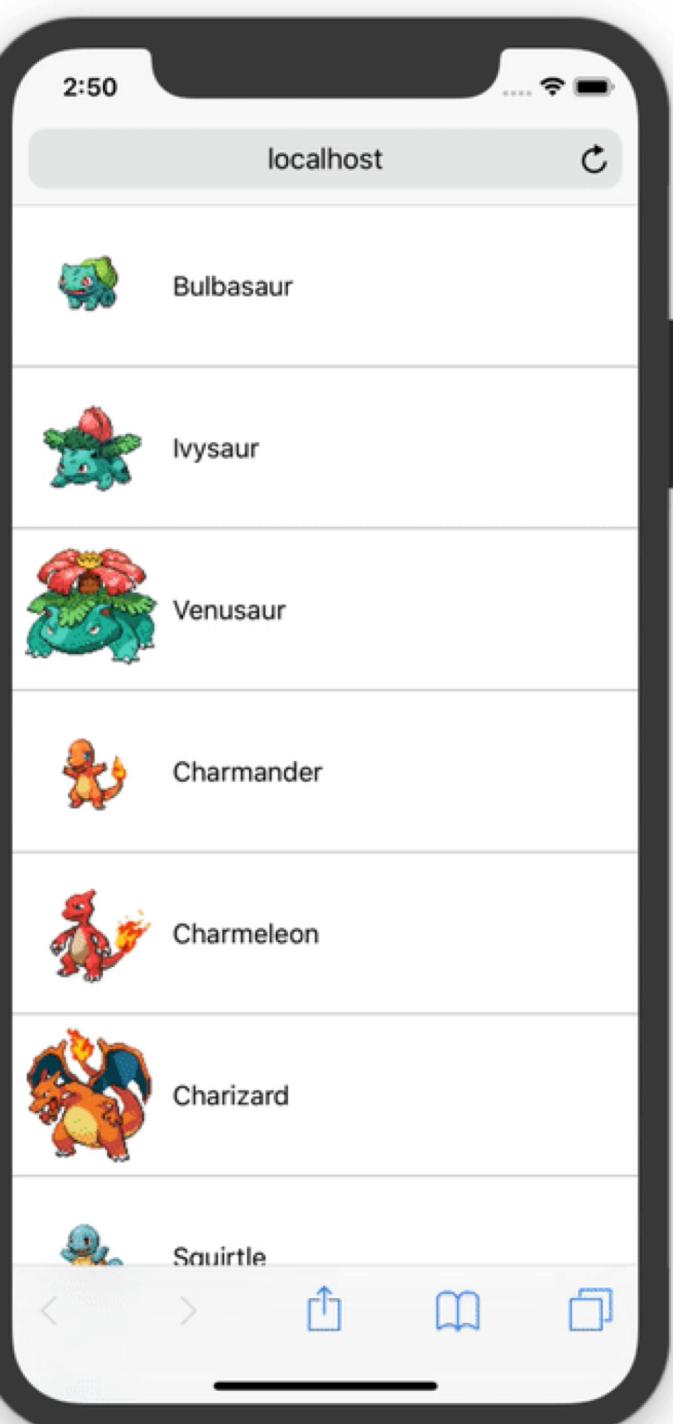
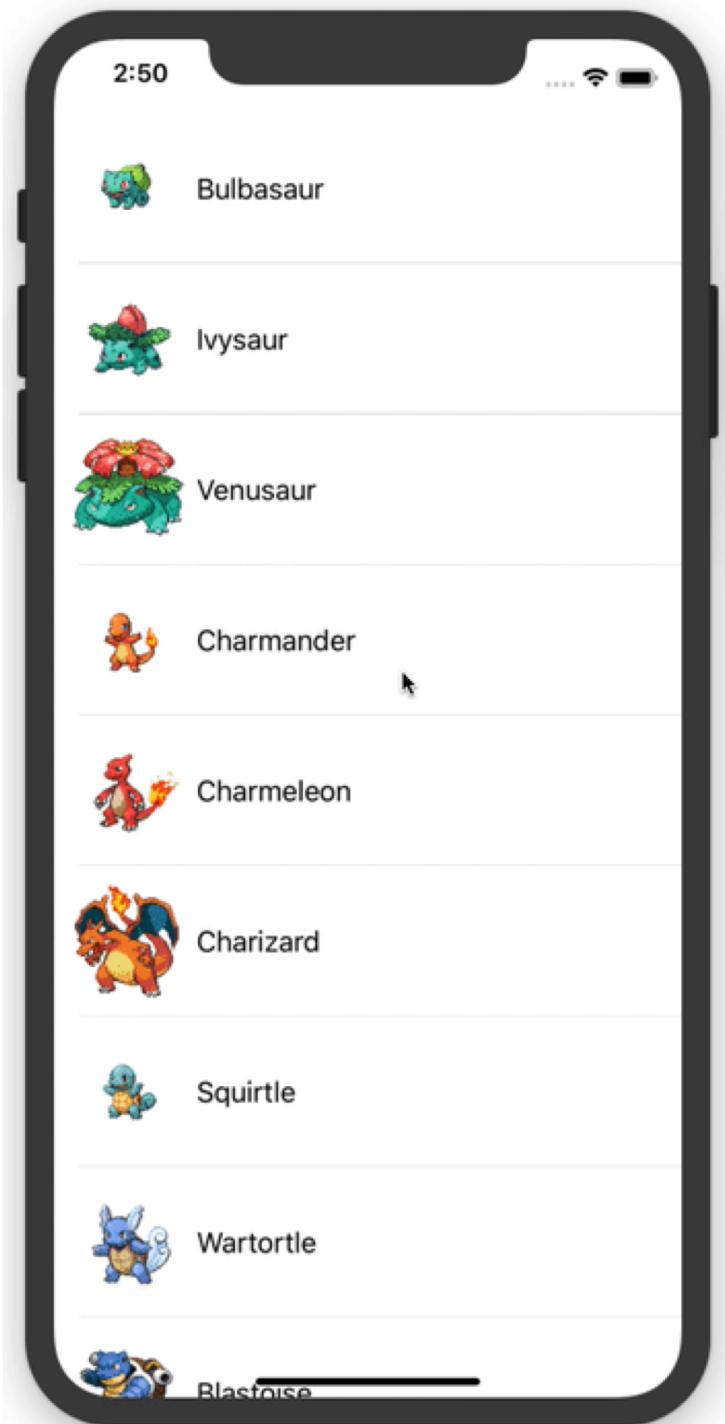
```
graph TD; A[Shared Project] -- "ng serve" --> WebApp[Web App]; A -- "npm run ios" --> NativeApp[Native Mobile App]; A -- "npm run android" --> NativeApp;
```

Today we're happy to announce an exciting new way to build web and mobile apps with Angular and NativeScript.

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

Never miss a story from **Angular Blog**, when you sign up for Medium. [Learn more](#)

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# Demo



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GitHub, Inc. (US) https://github.com/necolas/react-native-web

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types	[change] MIT license	8 months ago
.babelrc	[fix] babel-plugin support for 'react-native-web' module name	10 months ago
.eslintignore	Add React Native examples app	5 months ago
.eslintrc	Update eslint globals	5 months ago
.flowconfig	Add React Native examples app	5 months ago
.gitignore	Monorepo	10 months ago
.prettierignore	Add React Native examples app	5 months ago
.travis.yml	Monorepo	10 months ago
LICENSE	[change] MIT license	8 months ago
README.md	Update the Docz integration link	a month ago
package.json	0.9.3	10 days ago
year-lock	[enhancement] Support React DOM 16.5	a month ago

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Migrating a Web project

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

NativeScript

NativeScript Angular < ALL FLAVORS

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:

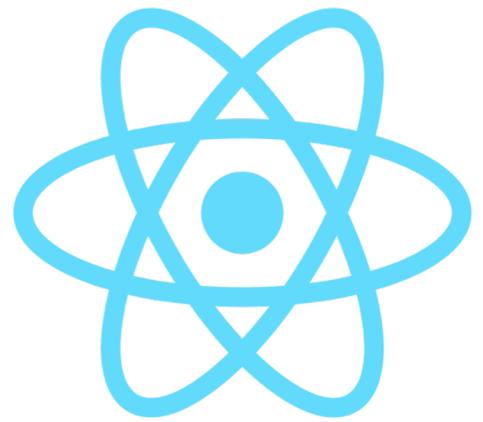
```
npm i --save-dev @angular/cli
```

## Angular packages

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- GET STARTED
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- CODE SHARING
  - Code Sharing Introduction
  - Creating A New Project
  - Migrating A Web Project**
  - Build Process
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