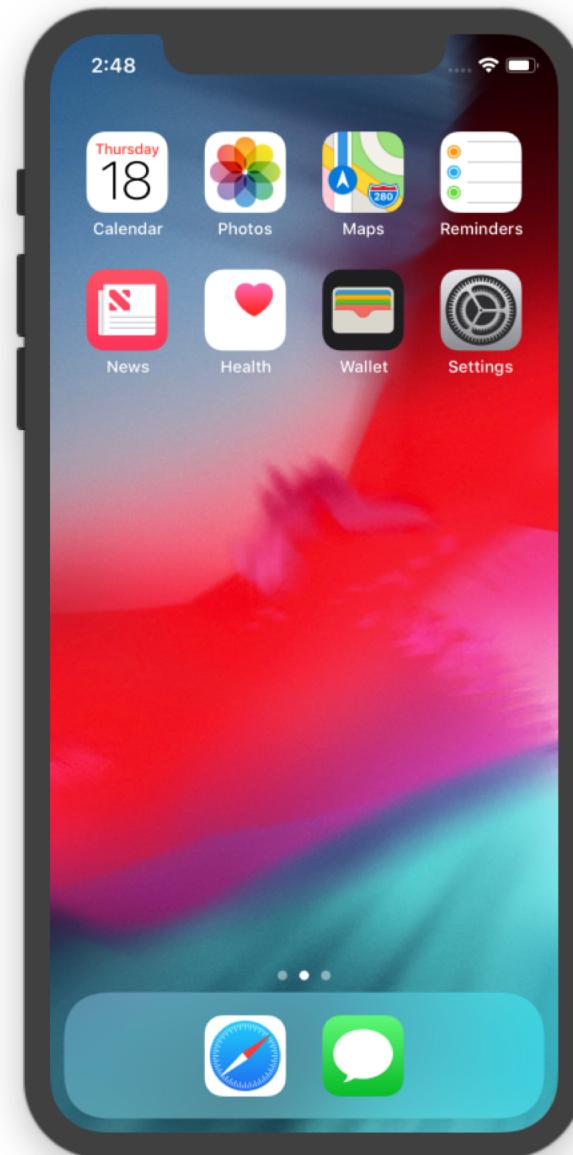


One Project. One Language. Three Apps.

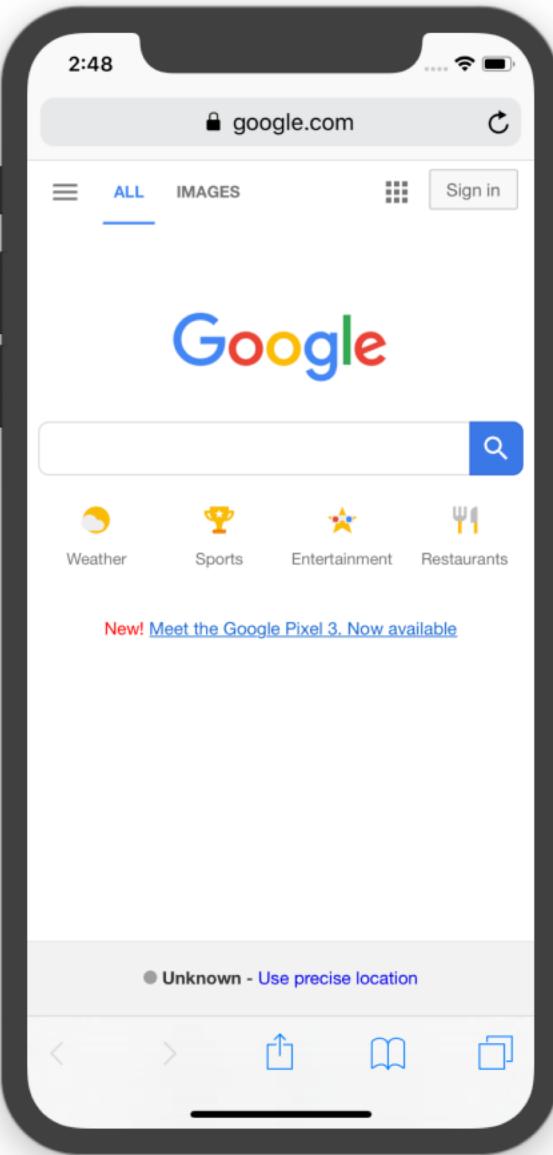
TJ VanToll (@tjvantoll)



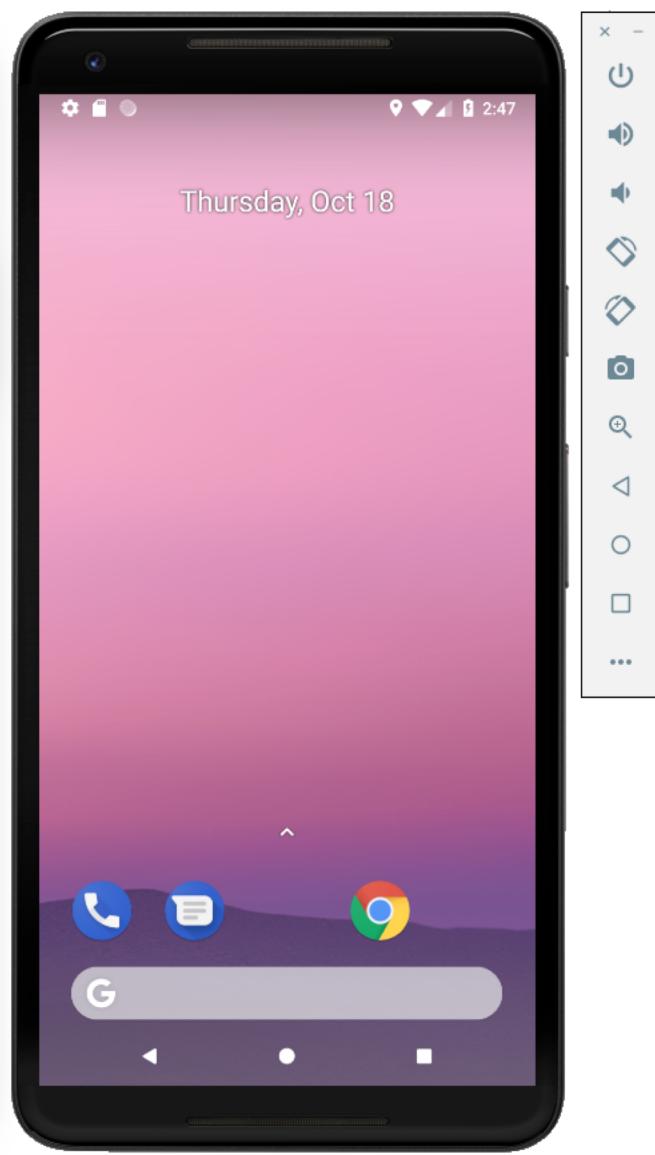
iOS



Web

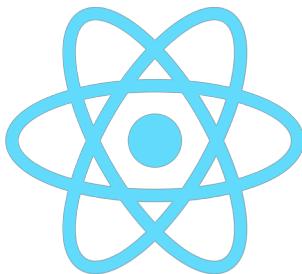


Android



Agenda

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



Web vs. Native

What Progressive Web Apps Mean

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Telerik® Developer Network

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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

Progress

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Blogs

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.

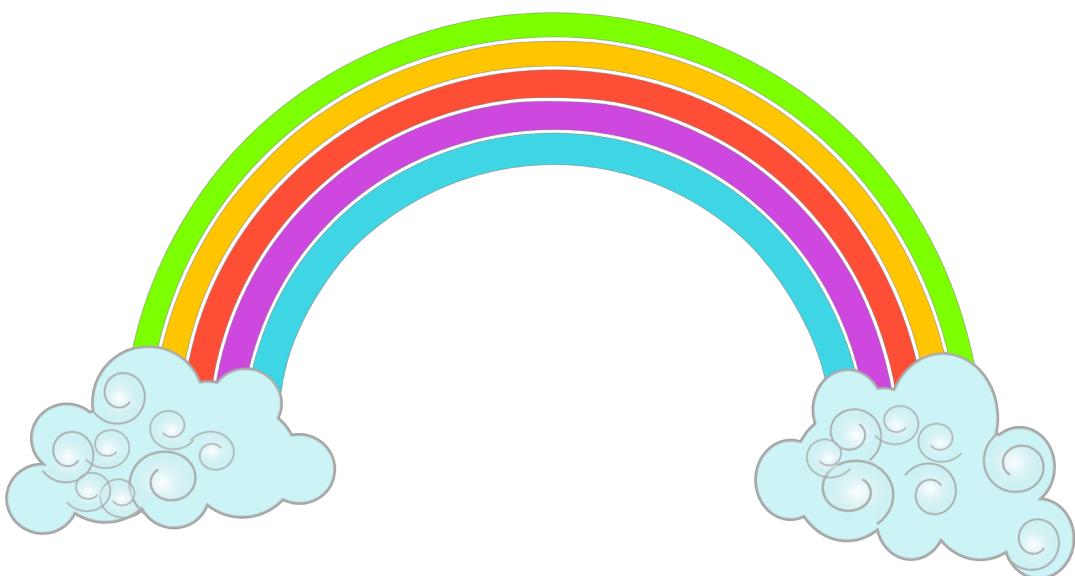
Source: <https://www.slideshare.net/comScoremarcom/2017-us-mobile-app-report>

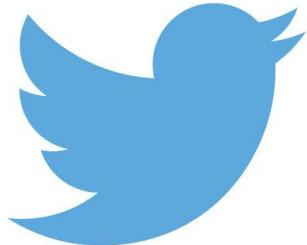
Web vs. Native

~~Web vs. Native~~



Both
Web vs. Native





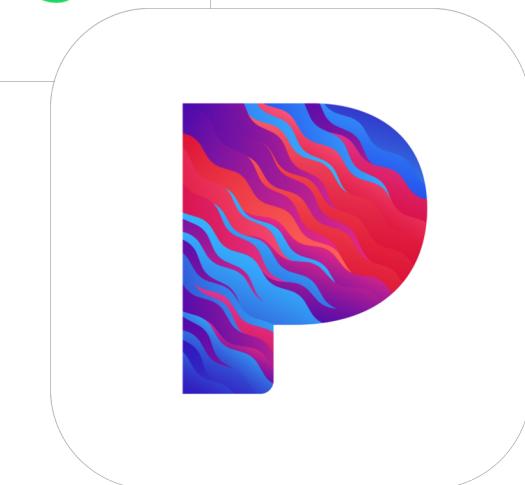
NETFLIX



Google Maps

amazon

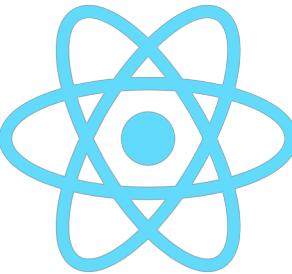
hulu



Web vs. Native

Approaches

- 1) React Native Web
- 2) NativeScript Schematics



React Native - A framework for ... +

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

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N NativeScript

Framework ▾ Developers ▾ Tools ▾ Support ▾ Enterprise ▾ Blogs

Create Native iOS and Android Apps With JavaScript

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

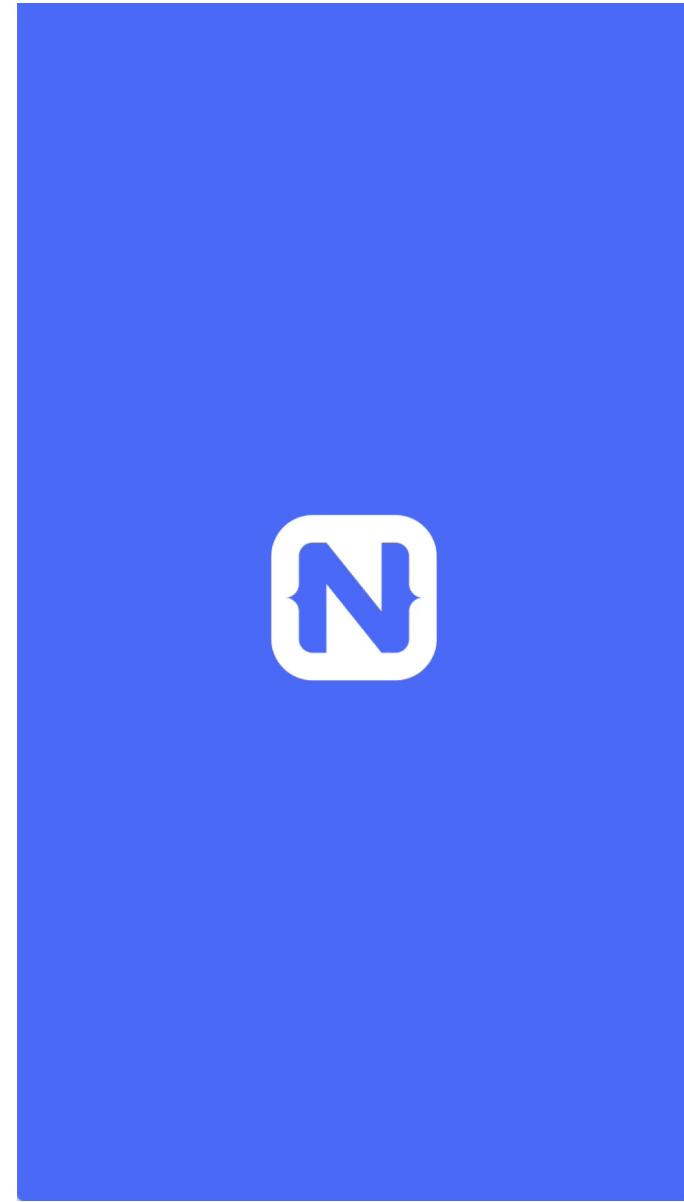
[Get Started](#) [▶ Why NativeScript?](#)



Angular
NativeScript features deep integration with modern Angular

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

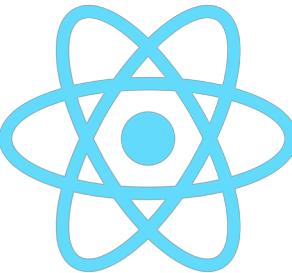
JavaScript, TypeScript, and more
Want to code your way? NativeScript provides



```
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 }  
25  
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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Code Issues 47 Pull requests 10 Insights

React Native for Web <https://necolas.github.io/react-native-web/>

react react-web react-native react-components ui-framework css-in-js i18n

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

A Apps That Work Natively on the Web and Mobile

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Sr. Developer Advocate at Progress · Developer · Tech Author · Works on NativeScript · Loves Angular
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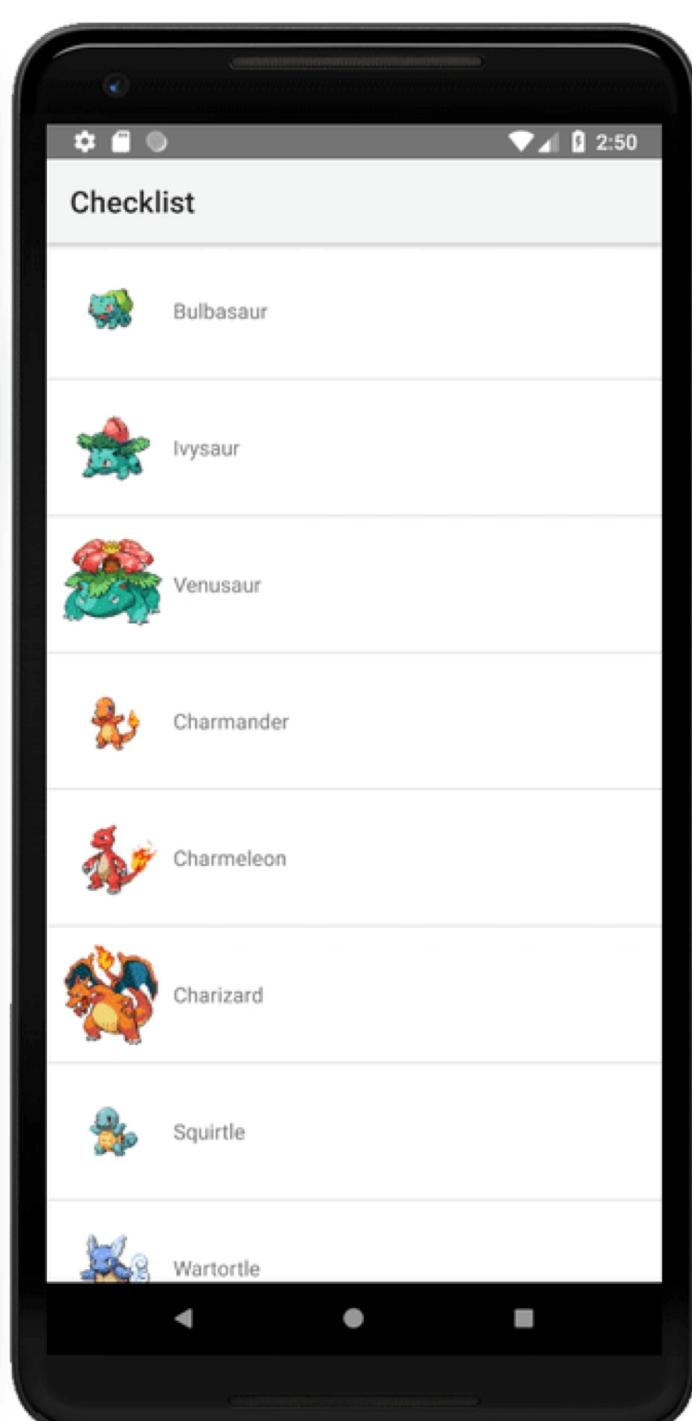
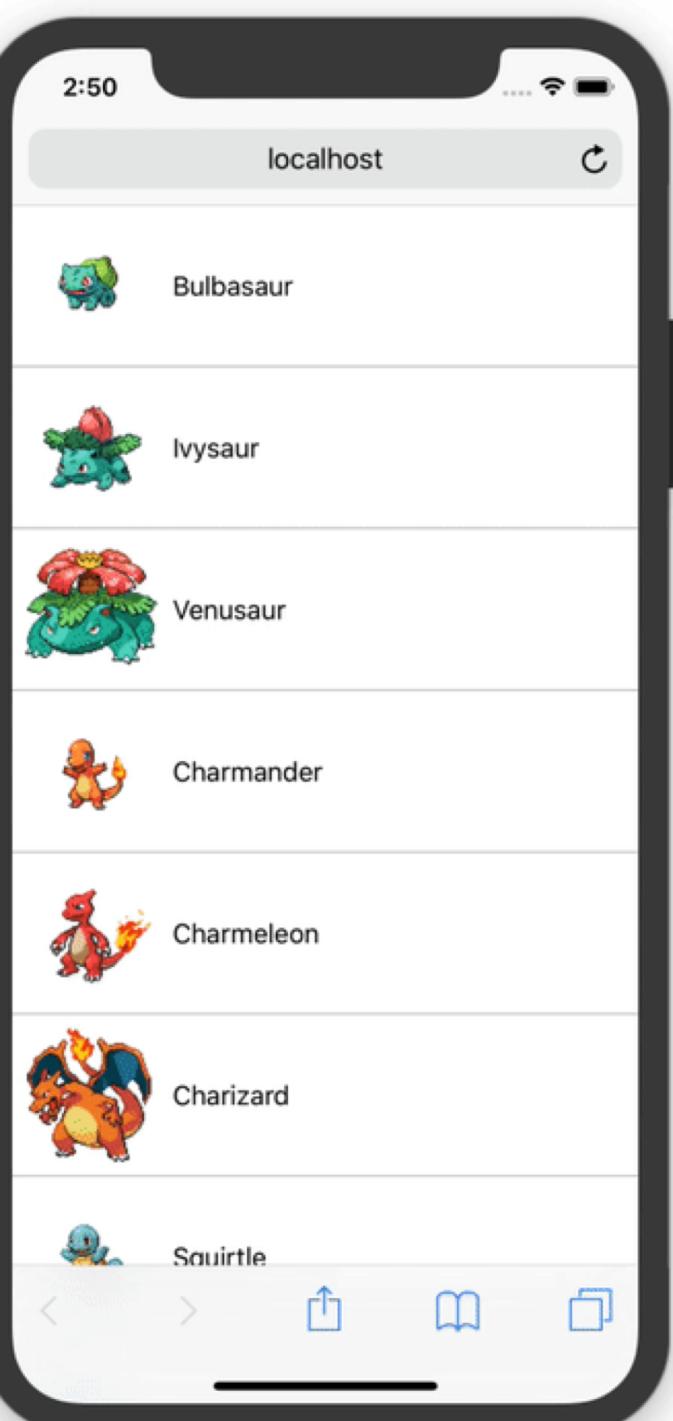
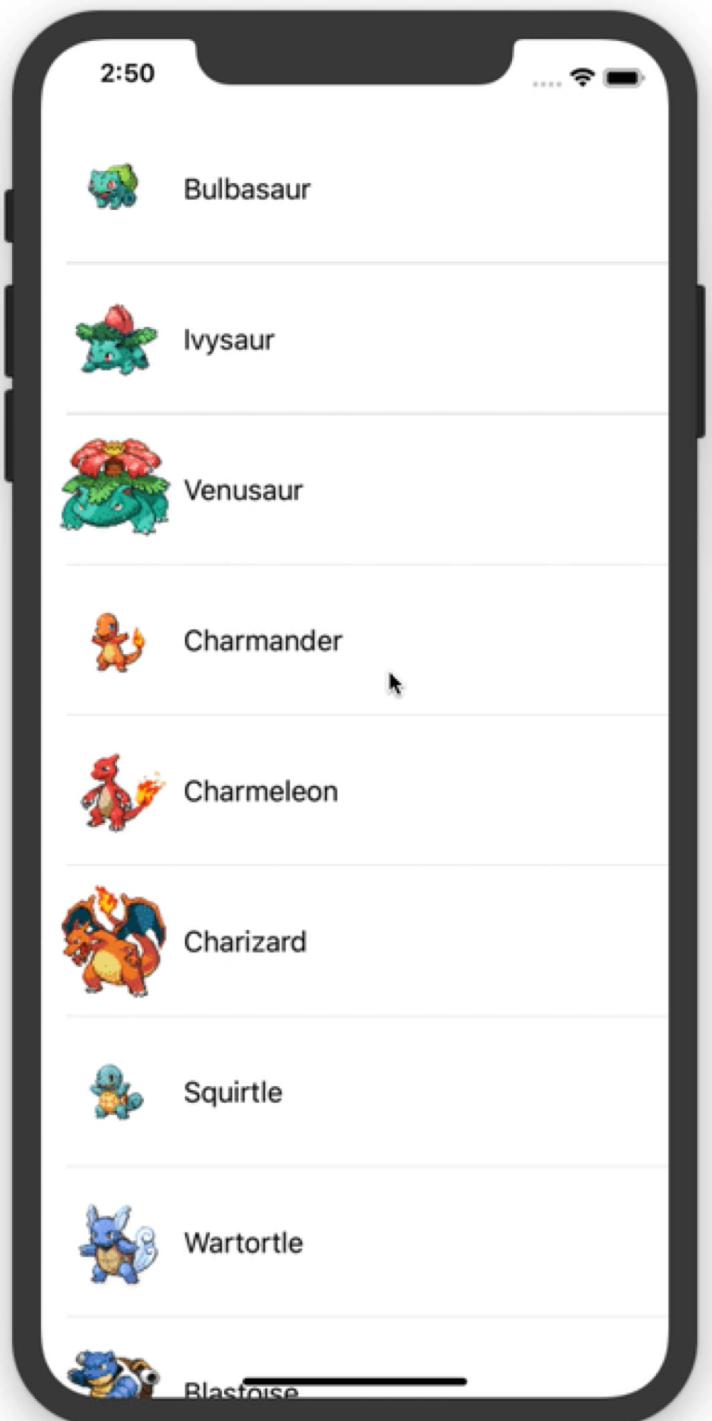
```
graph TD; A[Shared Project] -- "ng serve" --> WebApp[Web App]; A -- "npm run ios" --> NativeApp[Native Mobile App]; A -- "npm run android" --> NativeApp;
```

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

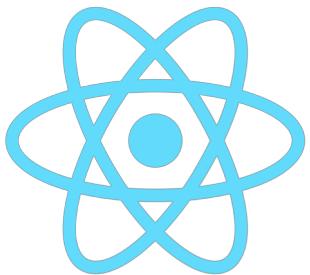
First, some background: since the beginning of Angular, you could use

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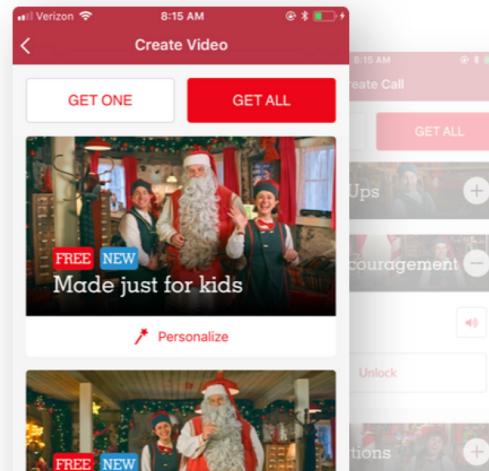


A screenshot of the NativeScript Twitter profile page. The header shows the Twitter logo and the handle @NativeScript. Below the header, there's a banner image featuring a smartphone displaying the NativeScript logo and a laptop with a chart. The profile section includes a large blue circular icon with a white 'N' inside, followed by three smaller circular icons for gear, mail, and notifications, and a 'Following' button. The bio reads: "NativeScript" and "@NativeScript Follows you". The description continues: "Open source framework for building truly native mobile apps with Angular, Vue.js, TypeScript, or JavaScript. Try it: play.nativescript.org". Below the bio are links to Earth, the website, and the date joined: August 2014. The statistics show 884 Following and 70K Followers. Below the stats are tabs for 'Tweets' and 'Tweets & replies'. A pinned tweet from October 30, 2018, states: "NativeScript @Native... - Oct 30 #NativeScript 5.0 is on its way!". Below the tweet is a call to action: "Join the launch webinar on November 8th to learn more: attendee.gotowebinar.com/reg/41273...".



Portable North Pole

By UGroupMedia inc



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.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

The screenshot shows the NativeScript Documentation website at <https://docs.nativescript.org>. The page features a dark header with the NativeScript logo and a navigation bar with links for FRAMEWORK, DEVELOPERS, TOOLS, SUPPORT, ENTERPRISE, and BLOGS, along with a PLAY NOW button. Below the header, the title "NativeScript Documentation" is displayed. The main content area contains three promotional boxes: "PLAY WITH {N}" (Write NativeScript code in the browser and preview on your device in seconds), "SIDEKICK" (Your faithful development companion with rich starter templates, verified plugins, cloud builds and debugging), and "EXAMPLES" (Get real code for common app scenarios, available for ANGULAR & TYPESCRIPT and JAVASCRIPT). A red arrow points from the "Code Sharing" link in the "NATIVESCRIPT & ANGULAR" sidebar to the "NativeScript UI" link in the "NATIVESCRIPT CORE" sidebar.

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- [UI Widgets](#)
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- [Code Sharing](#)
- [NativeScript UI](#)

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NATIVESCRIPT & VUE.JS

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NATIVESCRIPT SIDEKICK

- [Getting Started](#)

API REFERENCE

- [Documentation](#)

Migrating a Web project

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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:

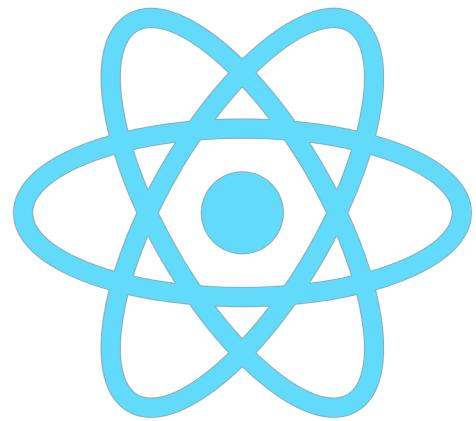
```
npm i --save-dev @angular/cli
```

Angular packages

FRAMEWORK ▾

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- USER INTERFACE
- CODE SHARING
 - Code Sharing Introduction
 - Creating A New Project
 - Migrating A Web Project**
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 - Code Splitting
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- TOOLING
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What do you think?

Thanks!
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