

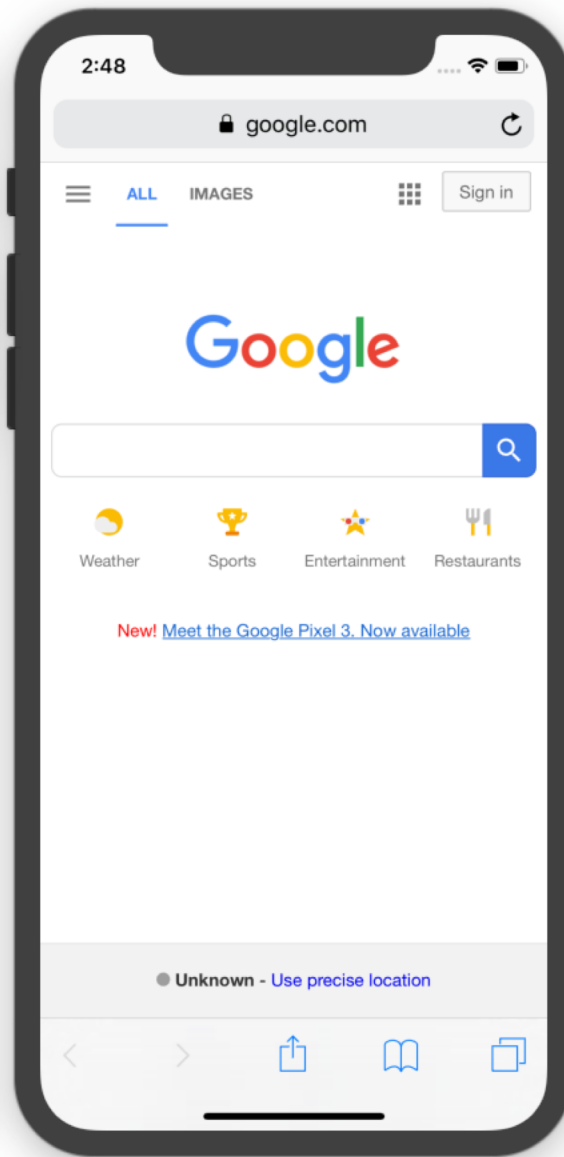
One Project. One Language. Three Apps.

TJ VanToll (@tjvantoll)

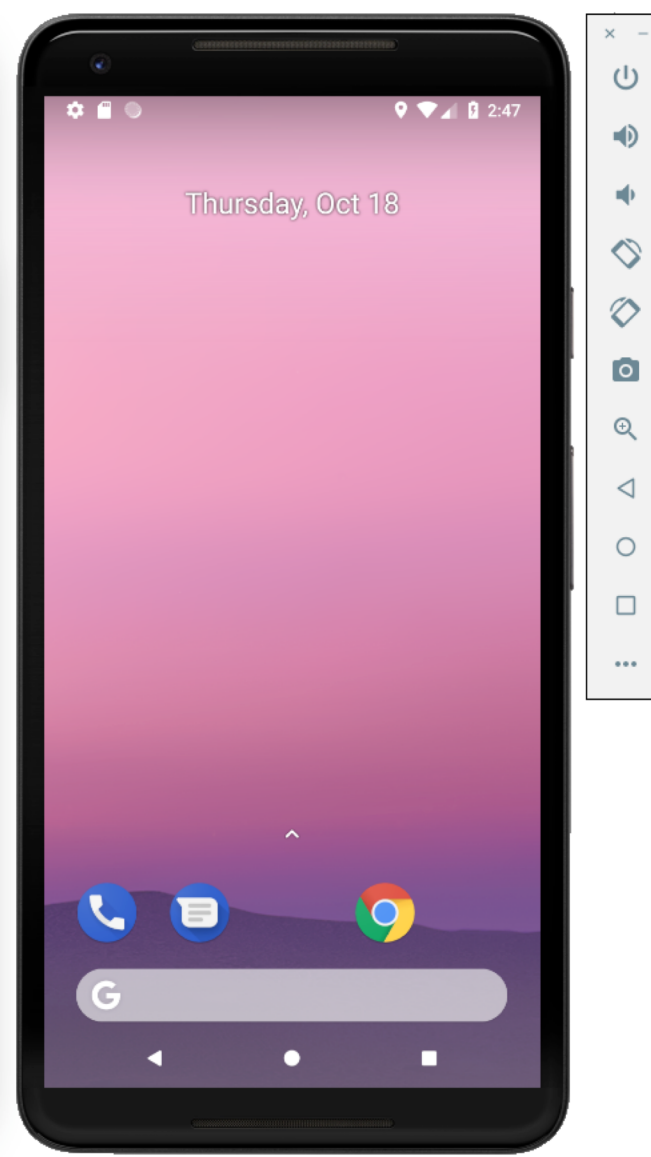
iOS



Web

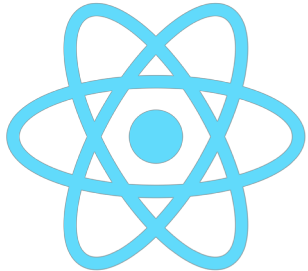


Android



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

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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



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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

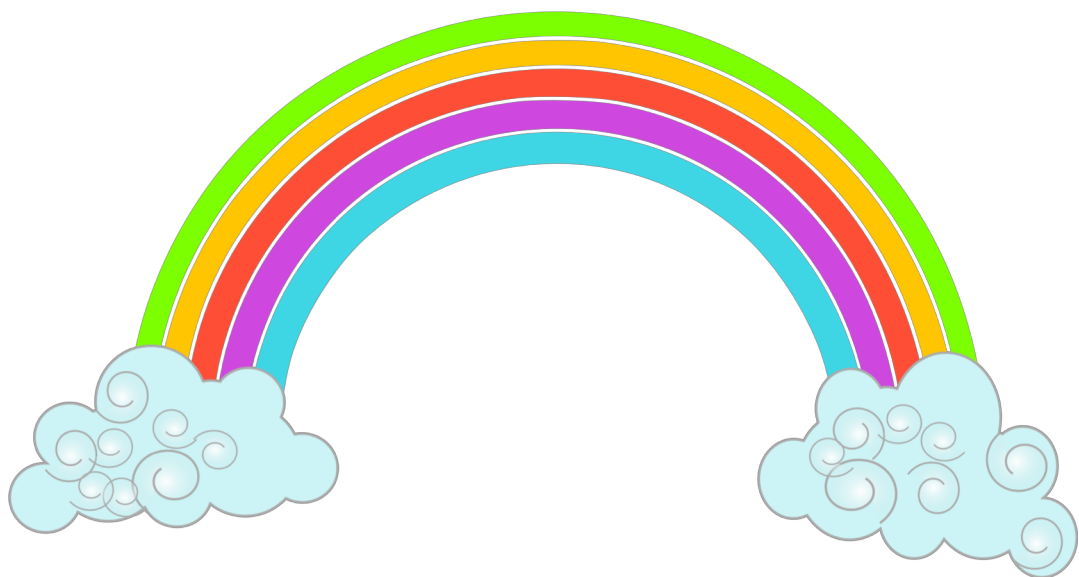
The average mobile web property captures 2.2x more monthly unique visitors than the average mobile app.

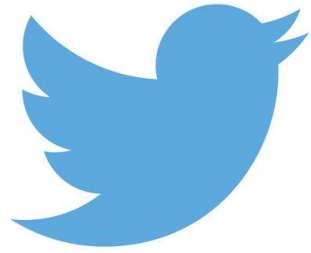
Web vs. Native

~~Web vs. Native~~



Both ~~Web vs. Native~~





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Web vs. Native

Approaches

- 1) React Native Web 

- 2) NativeScript Schematics  

React Native · A framework for building mobile apps
https://facebook.github.io/react-native/ 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 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>
    );
  }
}
```

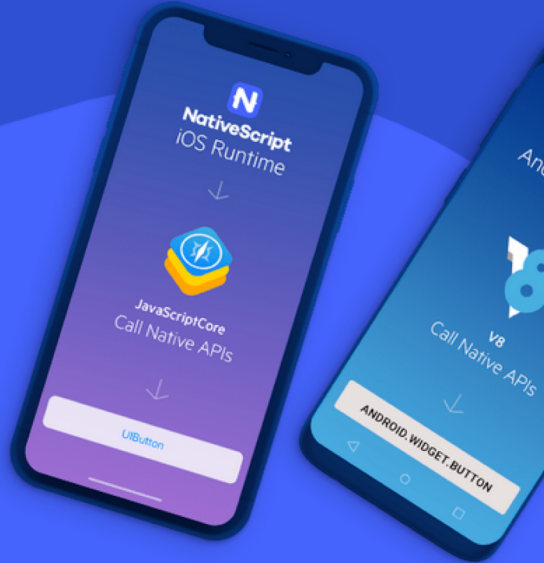
Native mobile apps with Angular X
https://www.nativescript.org Join the NativeScript Challenge on Uplabs and win \$3000 in prizes!


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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 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
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

i18n

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📁 types

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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

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📄 .gitignore

Monorepo

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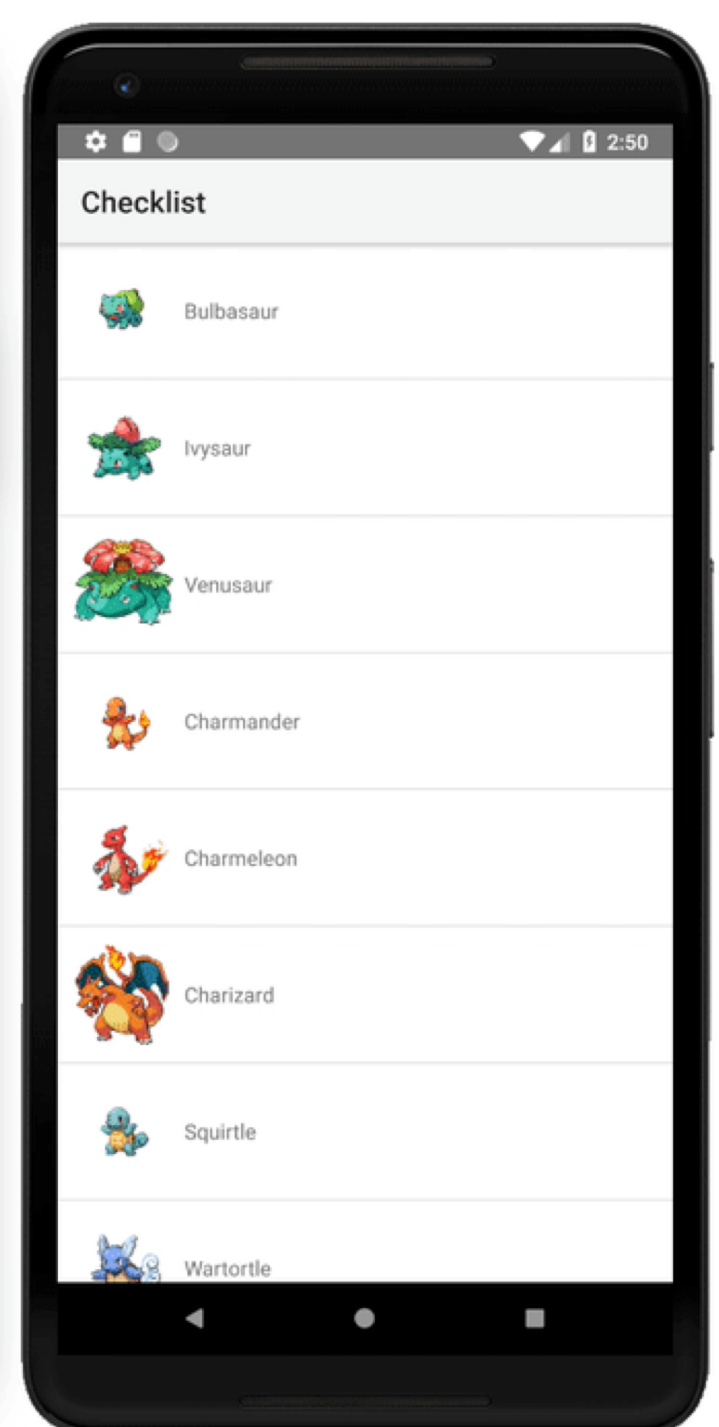
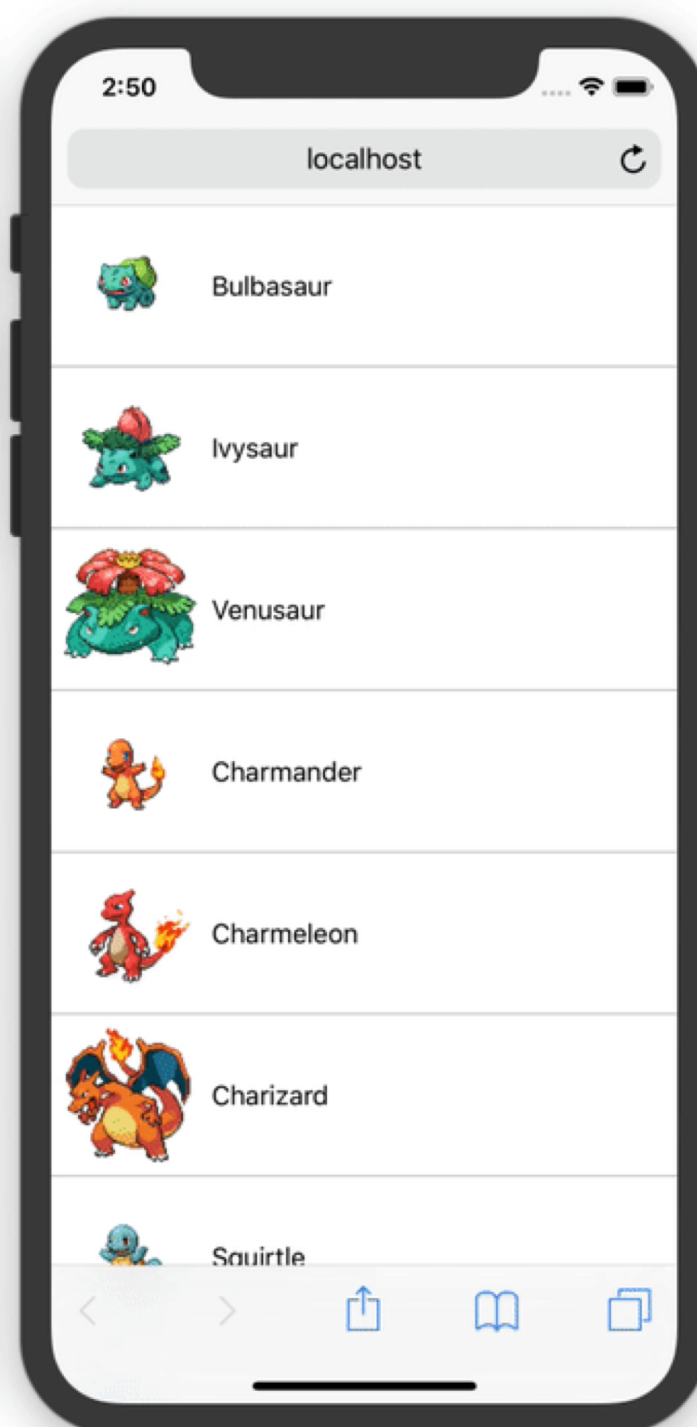
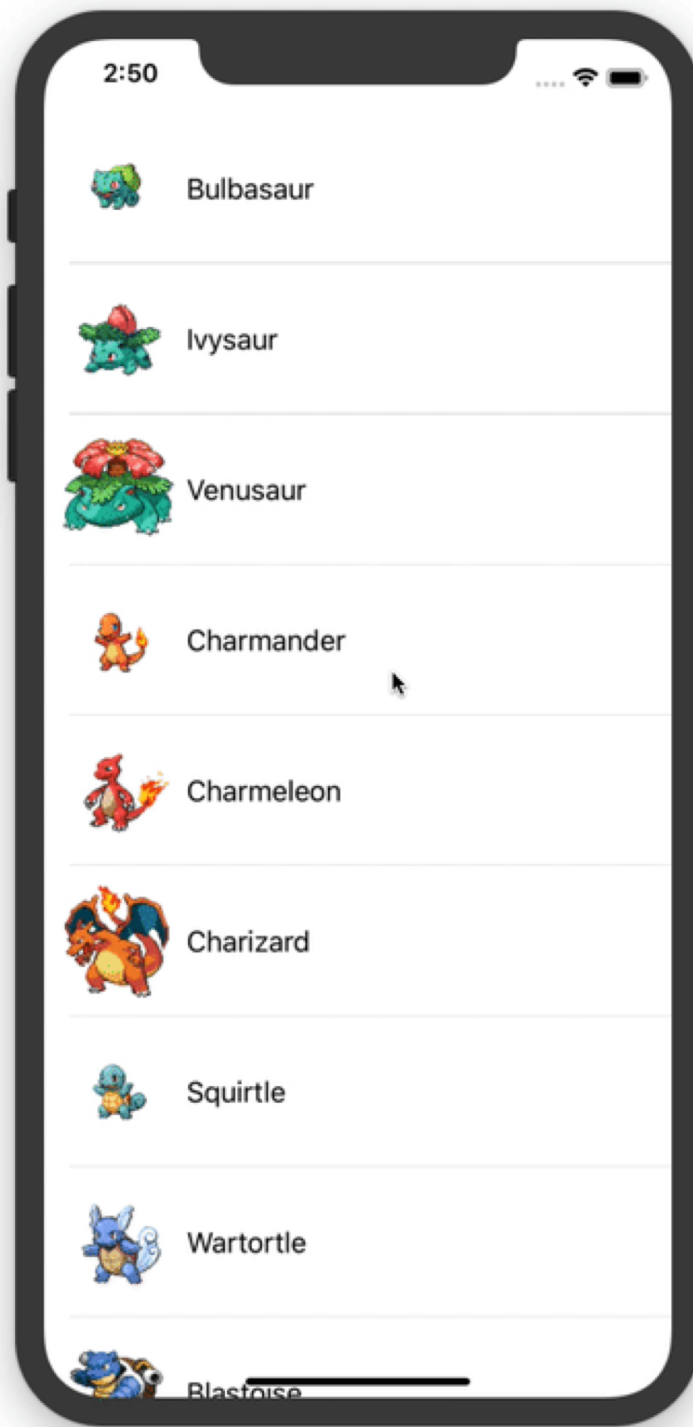
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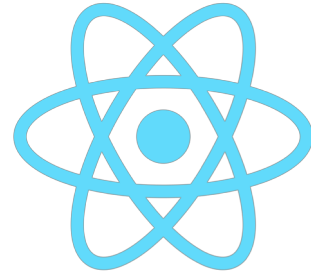
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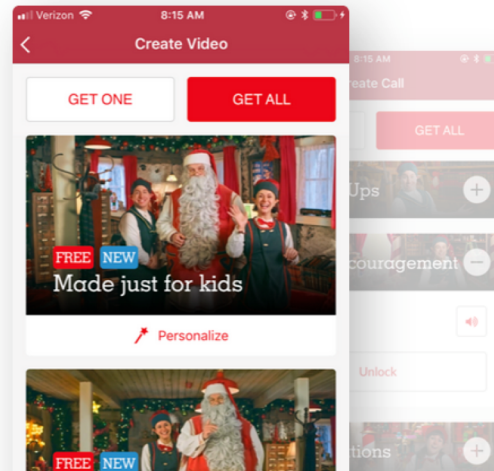
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Portable North Pole

By UGroupMedia inc



Create FREE magical personalized video messages from Santa to your loved ones, both big and small. Download and enjoy the world's number 1 Santa APP!

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Surprise them with a personalized video that will:

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- List details of their life and more!

Demo



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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

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Platform-Specific Components

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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**.

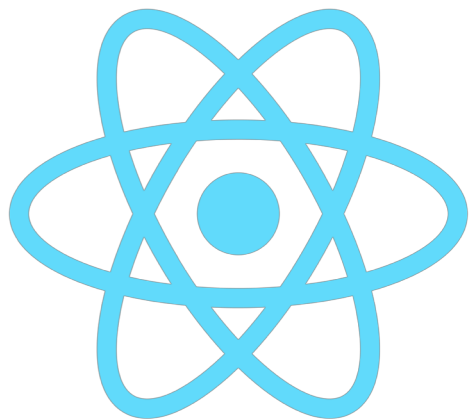
Angular CLI

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](#)

