



FRONTENDCON 2019 - @ROWDYRABOUW



CZY MAŁEJES
MIĘSYCUNG?



UNLEASH YOUR
WEB SKILLS
ON NATIVE!



SING
RIDE
WALK

025



WEB DEVELOPER

MOOD GOASTER

**WEB DEVELOPER
IN NATURAL HABITAT**



WEB DEVELOPER

- **HTML**
- **CSS**
- **JavaScript**
- **Sass**
- **Node Package Manager**

**WEB DEVELOPER
ON NATIVE IOS / ANDROID**



WEB DEVELOPER & NATIVE

- **App stores**
- **Provisioning files**
- **Java or Kotlin for Android**
- **Objective-C or Swift for iOS**

WEB DEVELOPER WITH NATIVESCRIPT



WEB DEVELOPER & NATIVESCRIPT

- App stores
- Provisioning files
- NativeScript
- HTML, CSS, JavaScript
- Sass
- Node Package Manager

WEB DEVELOPER
LOVES
NATIVE JAVASCRIPT





FIRE

ROWDY RABOUW

» **@rowdyrabouw**

» **Gouda, The Netherlands**

» **Freelance web and app developer**

» **Lead developer Nationale-Nederlanden Pension App**

» **Progress Developer Expert for Nativescript**

» **I ❤ superhero movies**







MOBILE APP FRAMEWORK DECISION GUIDE



MOBILE APP FRAMEWORK DECISION GUIDE

Do you want/need a native User Interface and native performance?

No

Yes

MOBILE APP FRAMEWORK DECISION GUIDE

Do you want/need a native User Interface and native performance?

No

Yes

Phonegap / Cordova with Ionic

- WebView
- DOM to manipulate
- HTML **styled** like native

MOBILE APP FRAMEWORK DECISION GUIDE

Do you want/need a native User Interface and native performance?

No

Yes

Phonegap / Cordova with Ionic

continue

- WebView
- DOM to manipulate
- HTML **styled** like native

MOBILE APP FRAMEWORK DECISION GUIDE

Do you have too much money and time?

Yes

No

MOBILE APP FRAMEWORK DECISION GUIDE

Do you have too much money and time?

Yes

No

Native iOS and Android

- Twice the work

MOBILE APP FRAMEWORK DECISION GUIDE

Do you have too much money and time?

Yes

Native iOS and Android

- Twice the work

No

continue

MOBILE APP FRAMEWORK DECISION GUIDE

Do you potentially want/need to share code with the web?

Or do you want/need to use web technologies?

No

Yes

MOBILE APP FRAMEWORK DECISION GUIDE

Do you potentially want/need to share code with the web?

Or do you want/need to use web technologies?

No

Yes

Xamarin

- .NET or C#
- Cross compiling
- Bindings to access native APIs

MOBILE APP FRAMEWORK DECISION GUIDE

Do you potentially want/need to share code with the web?

Or do you want/need to use web technologies?

No

Yes

Flutter

- Dart
- Cross compiling

MOBILE APP FRAMEWORK DECISION GUIDE

Do you potentially want/need to share code with the web?

Or do you want/need to use web technologies?

No

Flutter

- Dart
- Cross compiling

Yes

continue

MOBILE APP FRAMEWORK DECISION GUIDE

Do you want to use modern JavaScript?

No

Yes

MOBILE APP FRAMEWORK DECISION GUIDE

Do you want to use modern JavaScript?

No

Yes

Titanium

- No ES6/ES2015 support
- Can't use NPM
- Old MVC framework (Alloy)

MOBILE APP FRAMEWORK DECISION GUIDE

Do you want to use modern JavaScript?

No

Titanium

- No ES6/ES2015 support
- Can't use NPM
- Old MVC framework (Alloy)

Yes

continue

MOBILE APP FRAMEWORK DECISION GUIDE

Do you know and like React?

Yes

No

MOBILE APP FRAMEWORK DECISION GUIDE

Do you know and like React?

Yes

No

React Native

- React
- Bridge to access native APIs

MOBILE APP FRAMEWORK DECISION GUIDE

Do you know and like React?

Yes

No

React Native

- React
- Bridge to access native APIs
- **Hold my beer!**

MOBILE APP FRAMEWORK DECISION GUIDE

Do you know and like React?

Yes

React Native

- React
- Bridge to access native APIs
- **Hold my beer!**

No

continue



A dynamic image of a superhero woman with orange hair and a red and blue suit flying through a city. She is positioned behind the large, bold text.

NATIVE JAVASCRIPT

3D



BN

NATIVESCRIPT

WHAT IS NATIVESCRIPT?

- Open source framework for building truly native mobile apps
- JavaScript, markup (XML/HTML) and CSS
- Native code inside your JavaScript if you want and dare
- Cross Platform: one codebase for iOS and Android
- Backed by software company Progress
- Android 4.2 or a later stable official release
- iOS 9.0 or later stable official release

DOCS.NATIVESCRIPT.ORG

 NativeScript Framework ▾ Developers ▾ Tools ▾ Support ▾ Enterprise ▾ Blogs 🔍 Get Started Current version 6.0 ▾

NativeScript Documentation



PLAY WITH {N}

Write NativeScript code in the browser and preview on your device in seconds



INSTALL {N}

With the NativeScript CLI you can develop, build, and debug your apps locally on macOS, Windows, and Linux



SAMPLE APPS

Get real code for common app scenarios

[For Angular](#)
[For Vue.js](#)
[For JavaScript & TypeScript](#)

Looking for...

NativeScript & Angular

[Getting Started](#)

NativeScript Core

[Getting Started](#)

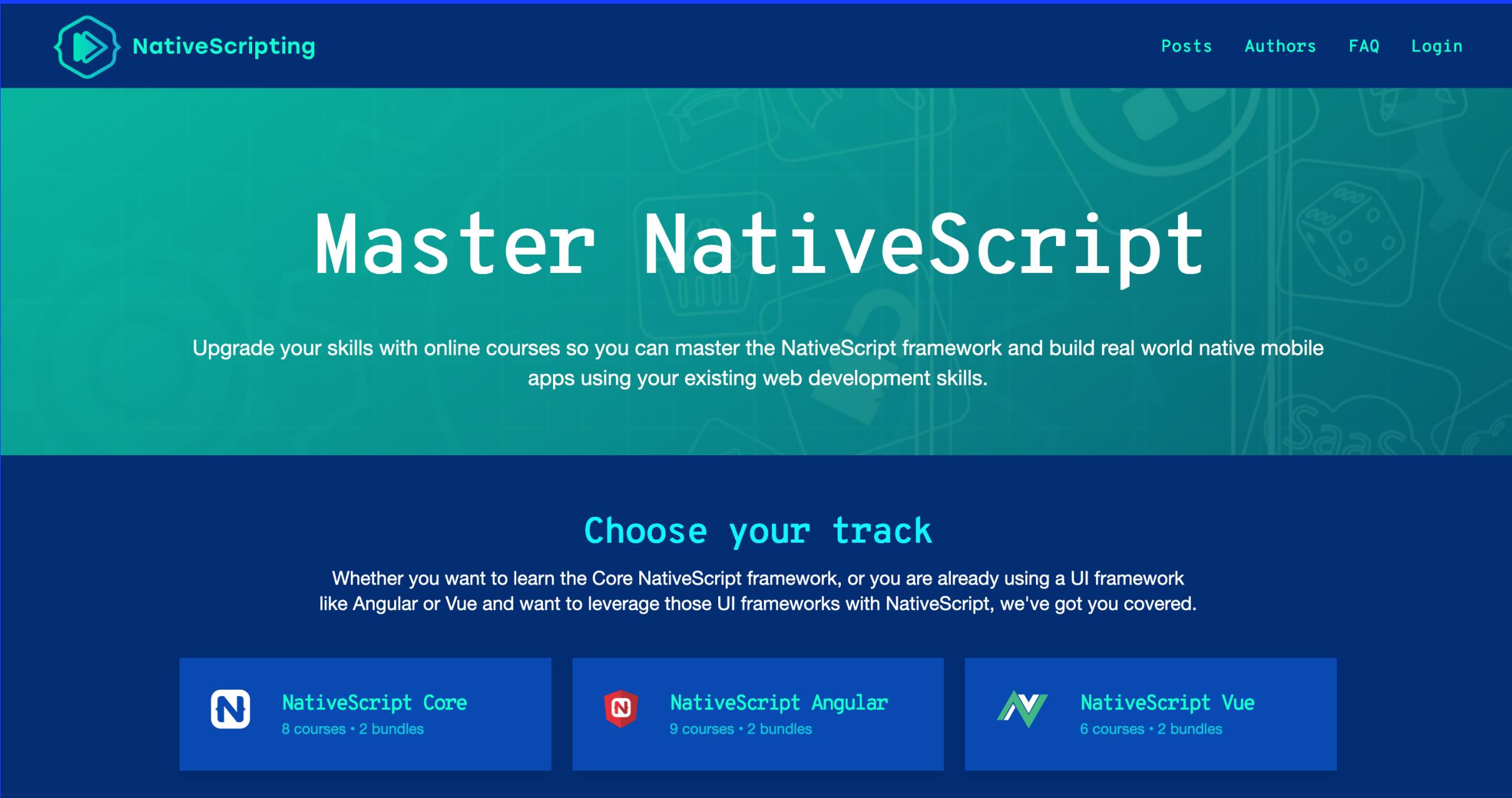
NativeScript & Vue.JS

[Getting Started](#)

NATIVESCRIPT.ORG/GET-THE-NATIVESCRIPT-BOOK



NATIVESCRIPTING.COM

The screenshot shows the homepage of NativeScripting.com. At the top, there's a dark blue header with the "NativeScripting" logo (a play button icon inside a hexagon) and the word "NativeScripting" in white. To the right are links for "Posts", "Authors", "FAQ", and "Login". The main title "Master NativeScript" is prominently displayed in large white letters. Below it, a subtitle reads: "Upgrade your skills with online courses so you can master the NativeScript framework and build real world native mobile apps using your existing web development skills." A large "Choose your track" heading is centered below the subtitle. Three course options are listed in boxes: "NativeScript Core" (8 courses, 2 bundles), "NativeScript Angular" (9 courses, 2 bundles), and "NativeScript Vue" (6 courses, 2 bundles).

NativeScripting

Posts Authors FAQ Login

Master NativeScript

Upgrade your skills with online courses so you can master the NativeScript framework and build real world native mobile apps using your existing web development skills.

Choose your track

Whether you want to learn the Core NativeScript framework, or you are already using a UI framework like Angular or Vue and want to leverage those UI frameworks with NativeScript, we've got you covered.

 NativeScript Core
8 courses • 2 bundles

 NativeScript Angular
9 courses • 2 bundles

 NativeScript Vue
6 courses • 2 bundles

NATIVESCRIPTCOMMUNITY.SLACK.COM

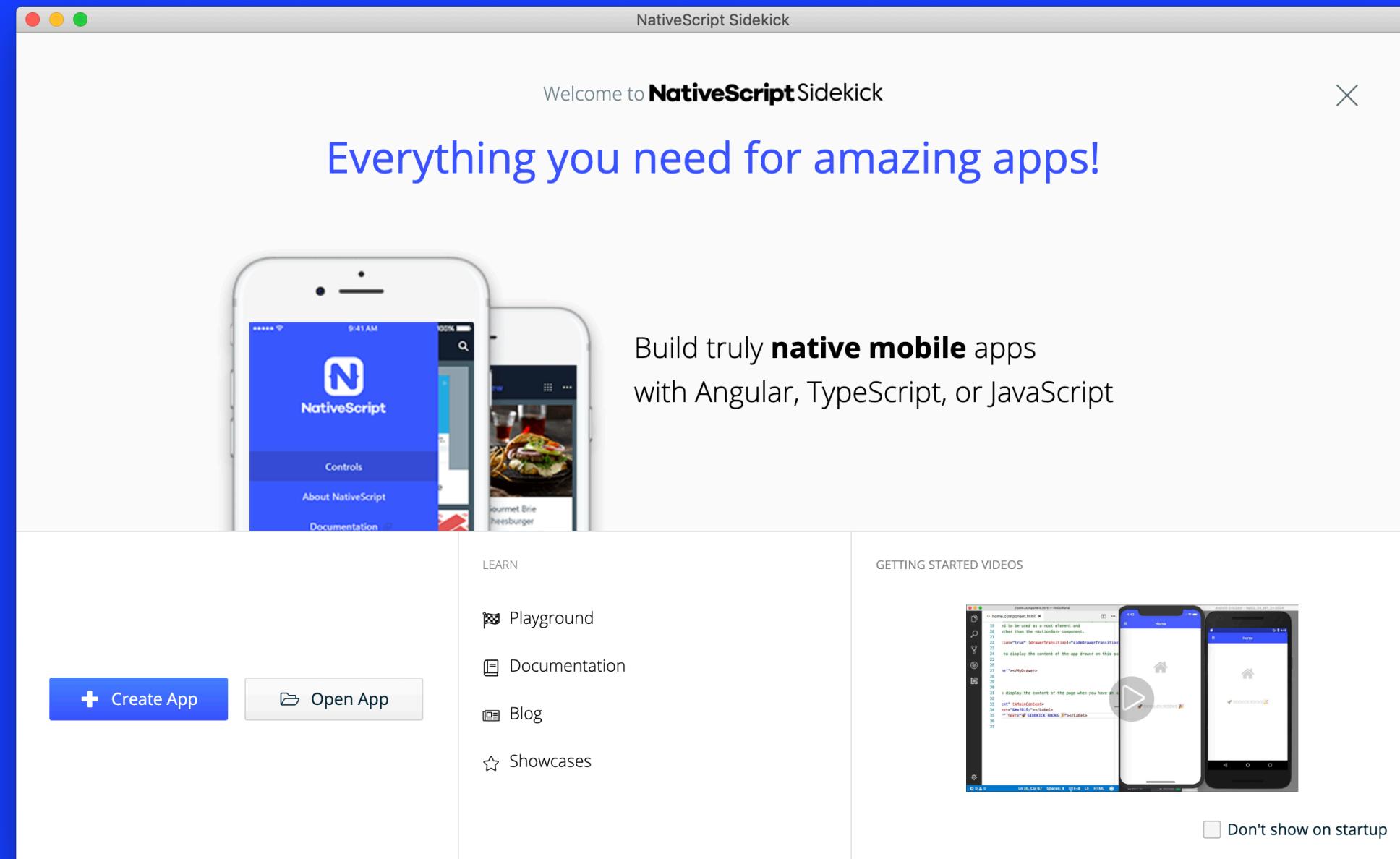
The screenshot shows the Slack interface for the **#general** channel in the **Nativescript Community** Slack workspace. The channel has 6,606 members and 0 topics. The URL is <https://discourse.nativescript.org/>. The message list is sorted by **Yesterday**.

Messages:

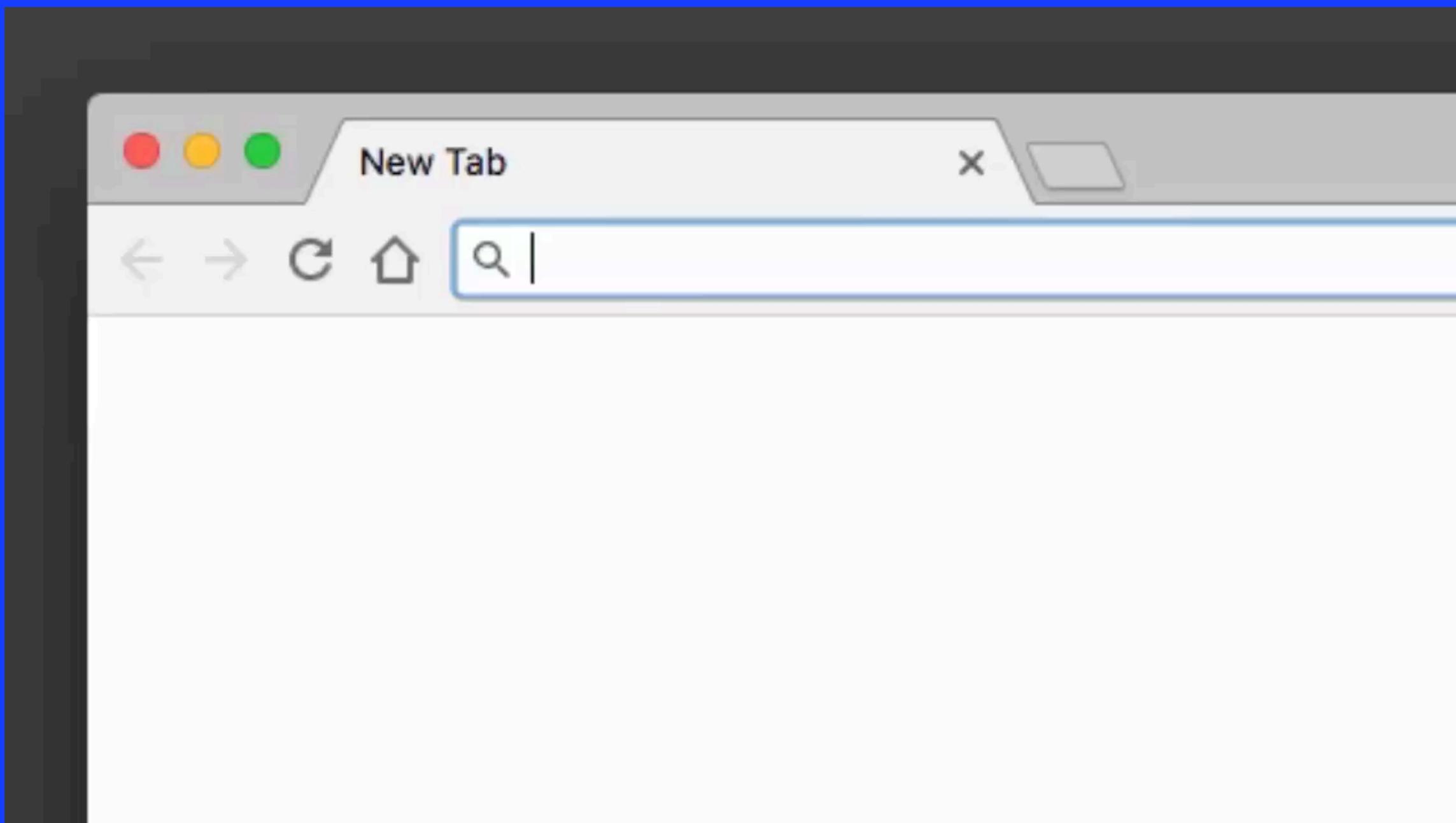
- Yilmaz** 8:37 AM joined **#general**.
- IFTTT APP** 8:47 AM [Display Local Notifications In A NativeScript Application With Angular](#)
Display Local Notifications In A NativeScript Application With Angular
by Volodya Kurpita via Newest questions tagged nativescript - Stack Overflow <https://ift.tt/2HTtje>
- Bassie** 9:23 AM joined **#general**.
- Milad** 9:30 AM hi when i run npm run watch:android
i got `Unable to apply changes on device: emulator-5554. Error is: Command ./gradlew failed with exit code 1.` error
i searched a lot about that but nothing changes (edited)
- mast3rd3mon** 10:14 AM you should be running `tns run android`
- Milad** 10:15 AM No manifest found in /home/milad/Public/MobileApp/app/App_Resources/Android/AndroidManifest.xml
Could not find folder: /home/milad/Public/MobileApp/app
Unable to apply changes on device: emulator-5554. Error is: cp: no such file or directory: /home/milad/Public/MobileApp/app/App_Resources.
i'm using nativescript vue (edited)
- mast3rd3mon** 10:16 AM looks like a bad project creation, it should gen that folder when you create the project
- Milad** 10:18 AM i'm using nativescript vue template
- Cepheus** 11:25 AM

At the bottom, there is a message input field with the placeholder **Message #general** and a send button with a smiley face icon.

NATIVESCRIPT.ORG/NATIVESCRIPT-SIDEKICK



PLAY.NATIVESCRIPT.ORG





MARVEL
MARK UP
LIKE ON THE WEB



MARKUP

<http://2xr.nl/markup>

<https://docs.nativescript.org/ui/components>

```
<ActionBar title="Native elements"/>
<StackLayout>
    <Button text="Button" tap="{{ onButtonTap }}"/>
    <Switch checked="false"/>
    <SegmentedBar items="{{ segmentedBarItems }}"/>
    <Progress value="0" maxValue="100"/>
    <Slider value="0" minValue="0" maxValue="100"/>
    <DatePicker year="2018" month="1" day="1"
        minDate="1970-01-01" maxDate="2100-12-31"/>
</StackLayout>
```

Native elements

BUTTON



ITEM 1

ITEM 2

ITEM 3



31

Dec

2017

01

Jan

2018

02

Feb

2019

Native elements

Button



Item 1

Item 2

Item 3



29

October

2015

30

November

2016

31

December

2017

1

January

2018

2

February

2019

3

March

2020

4

April

2021

TEXTFIELD

https://docs.nativescript.org/api-reference/modules/_ui_text_field_.textfield

<TextField/>

<TextField text="" />

<TextField hint="Enter your name" />

TEXTFIELD: AUTOCAPITALIZATION

https://docs.nativescript.org/api-reference/modules/_ui_text_field_.textfield

```
<TextField autocapitalizationType="allCharacters"/>
```

```
<TextField autocapitalizationType="sentences"/>
```

```
<TextField autocapitalizationType="words"/>
```

TEXTFIELD: AUTOCAPITALIZATION

https://docs.nativescript.org/api-reference/modules/_ui_text_field_.textfield

<TextField autocapitalizationType="allCharacters"/>

<TextField autocapitalizationType="sentences"/>

<TextField autocapitalizationType="words"/>

<TextField autocapitalizationType="none"/>

TEXTFIELD: AUTOCORRECT

https://docs.nativescript.org/api-reference/modules/_ui_text_field_.textfield

```
<TextField autocorrect="true"/>
```

```
<TextField autocorrect="false"/>
```

TEXTFIELD: KEYBOARDDTYPE

<http://2xr.nl/keyboardType>

https://docs.nativescript.org/api-reference/modules/_ui_enums_.keyboarotype

```
<TextField keyboardType="number"/>
<TextField keyboardType="datetime"/>
<TextField keyboardType="phone"/>

<TextField keyboardType="email"/>

<TextField keyboardType="url"/>
```

keyboardType

datetime

number

phone

email

url

default

keyboardType

datetime

number

phone

email

url

default

TEXTFIELD: MORE ATTRIBUTES

https://docs.nativescript.org/api-reference/modules/_ui_text_field_.textfield

<TextField **textAlignment**=""/>

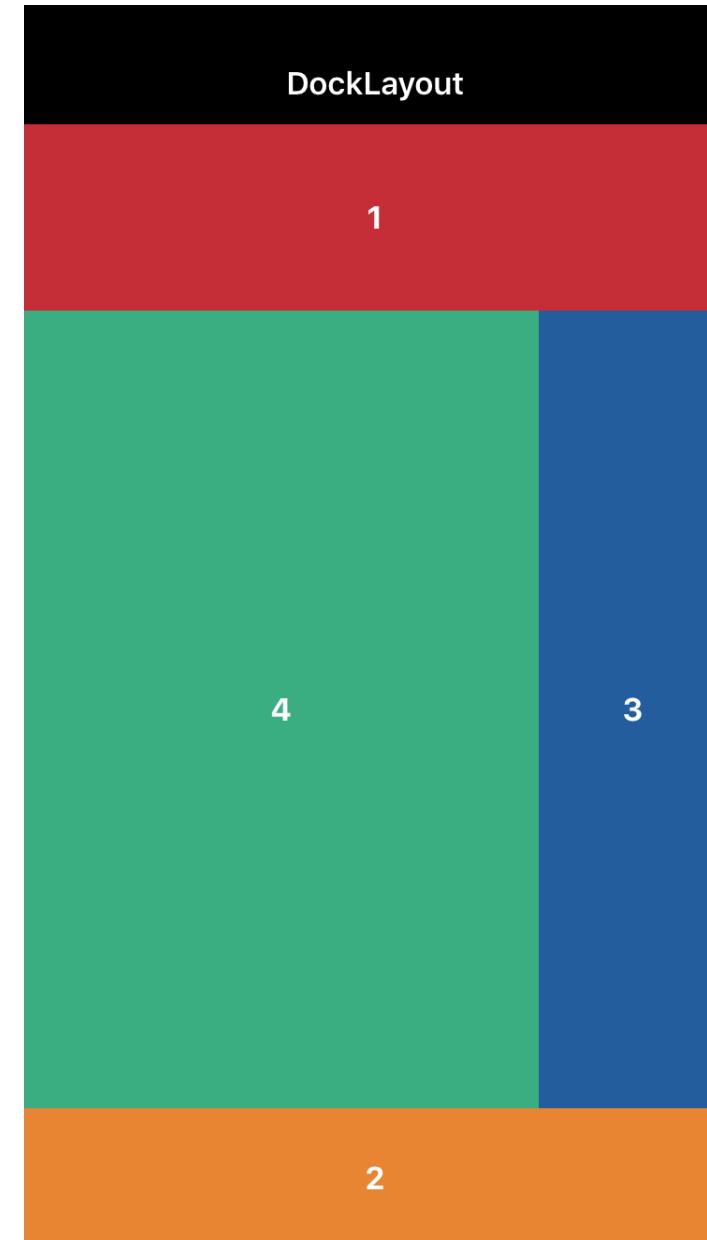
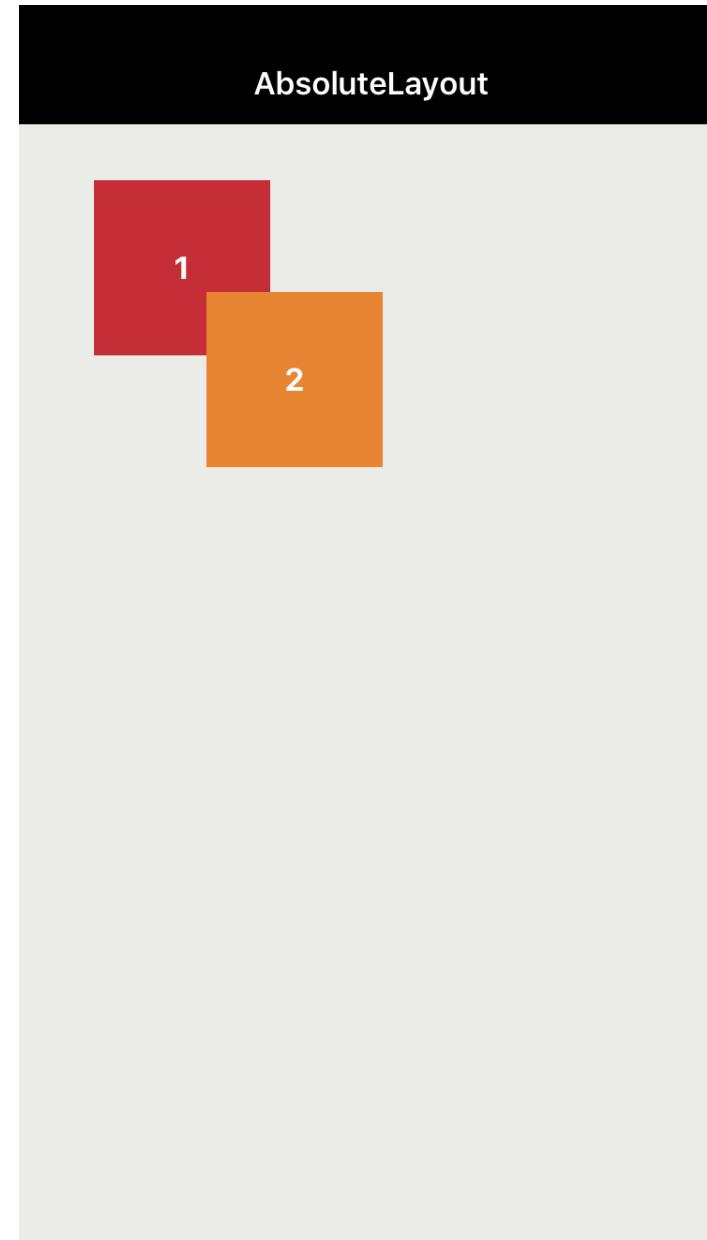
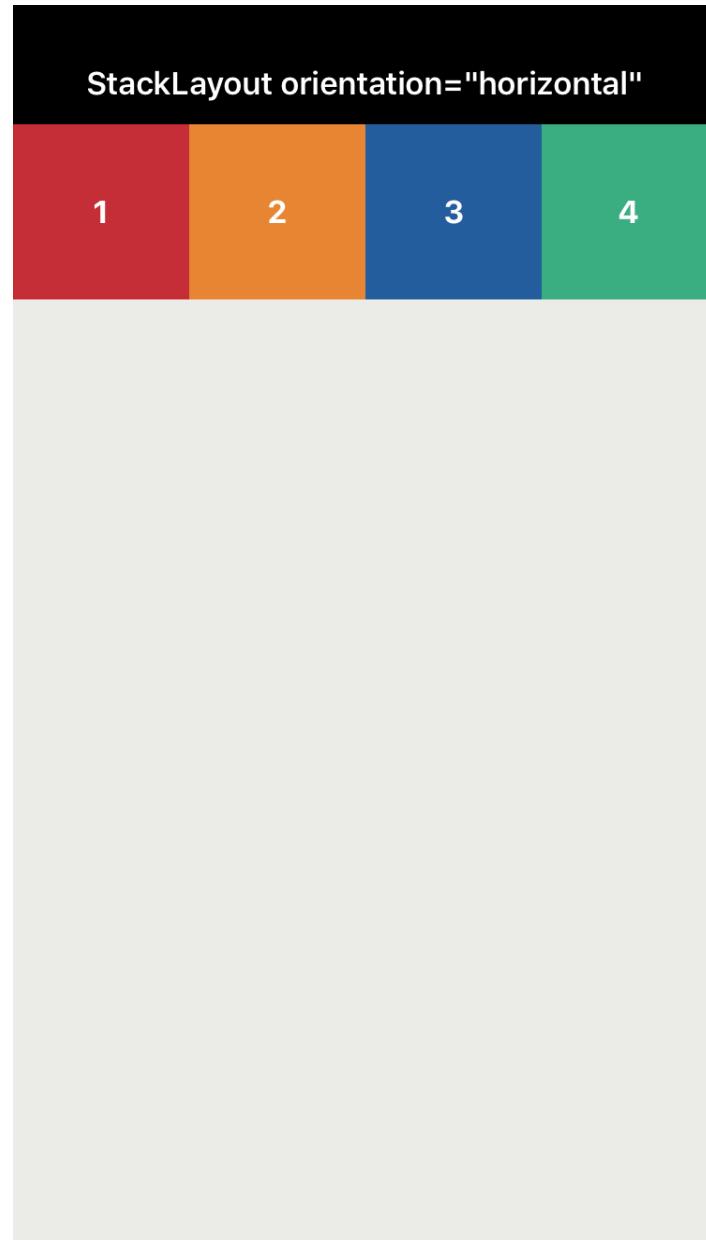
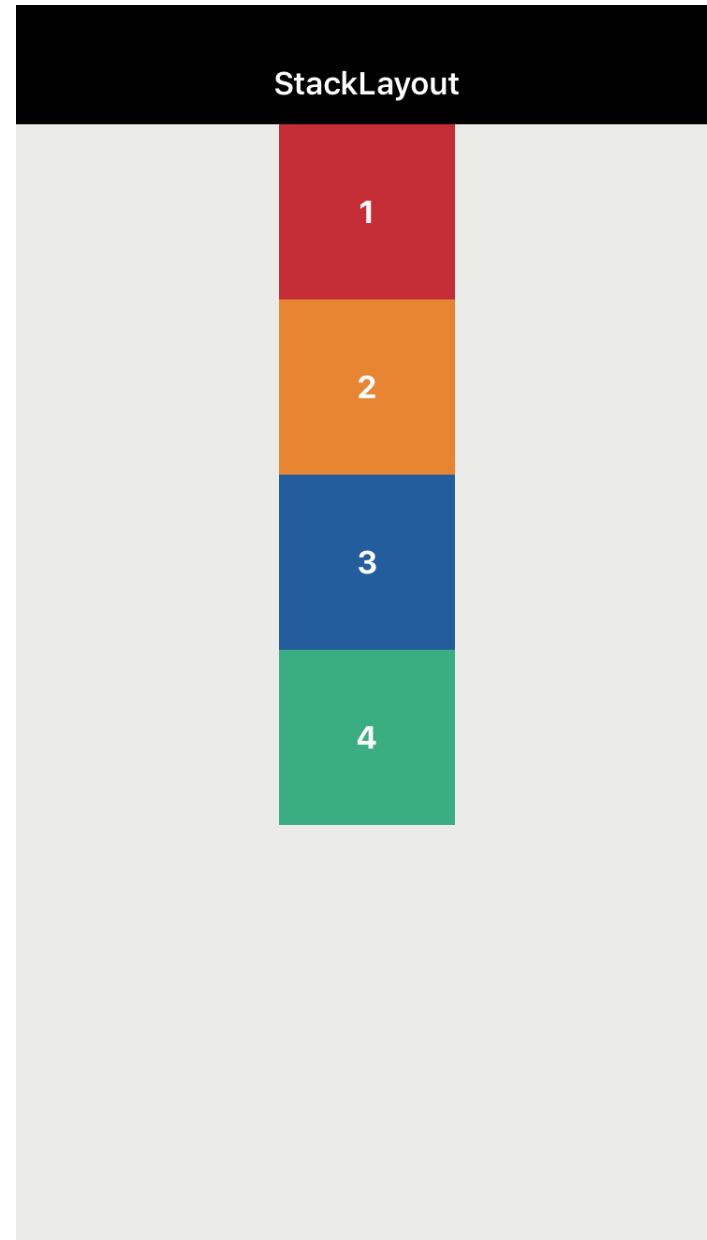
<TextField **visibility**=""/>

<TextField **width**=""/>

<TextField **maxLength**=""/>

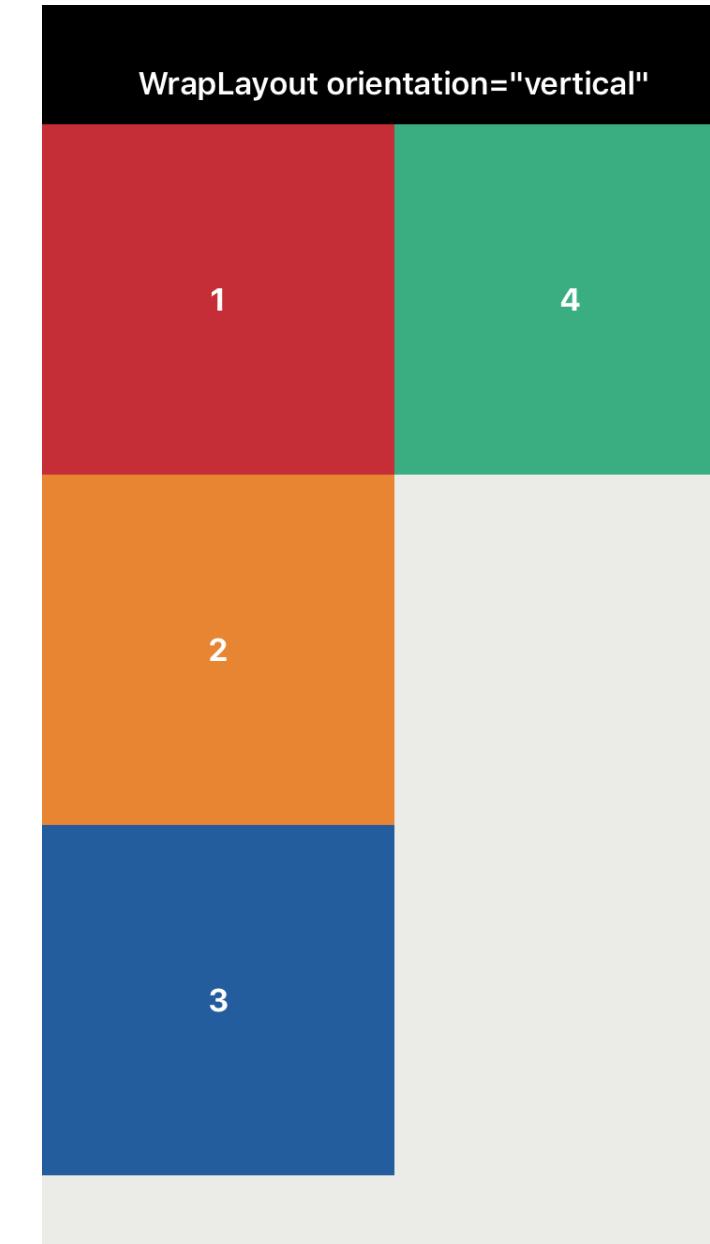
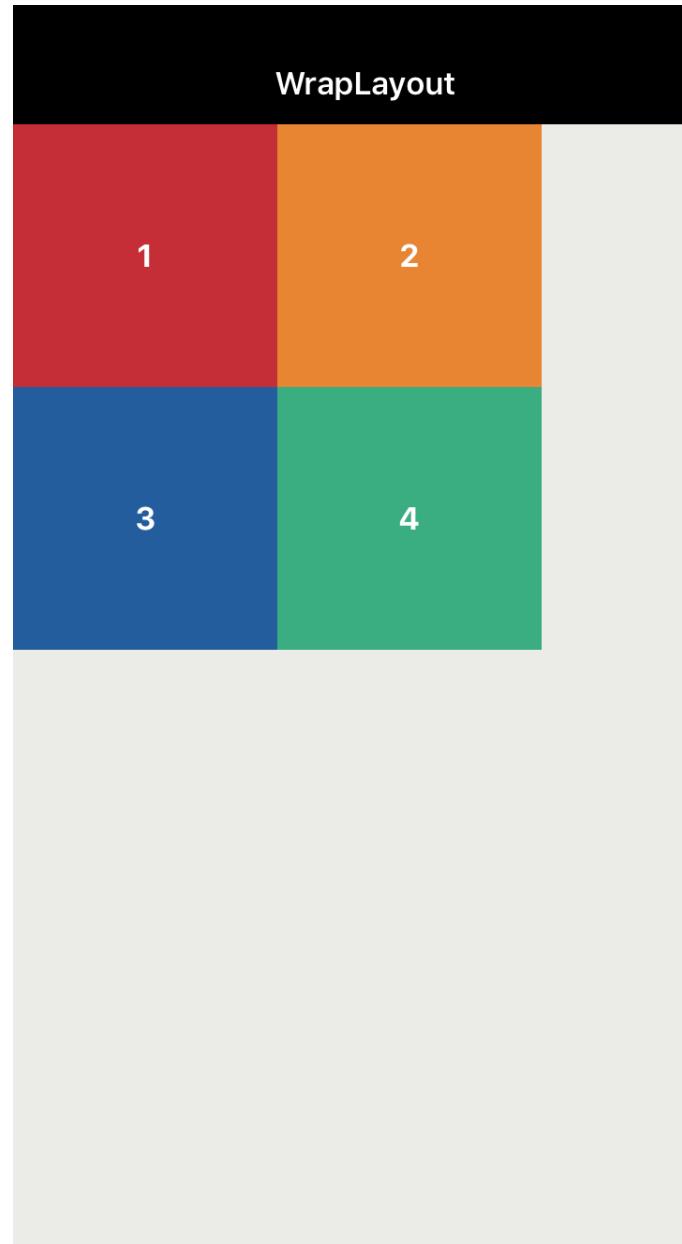
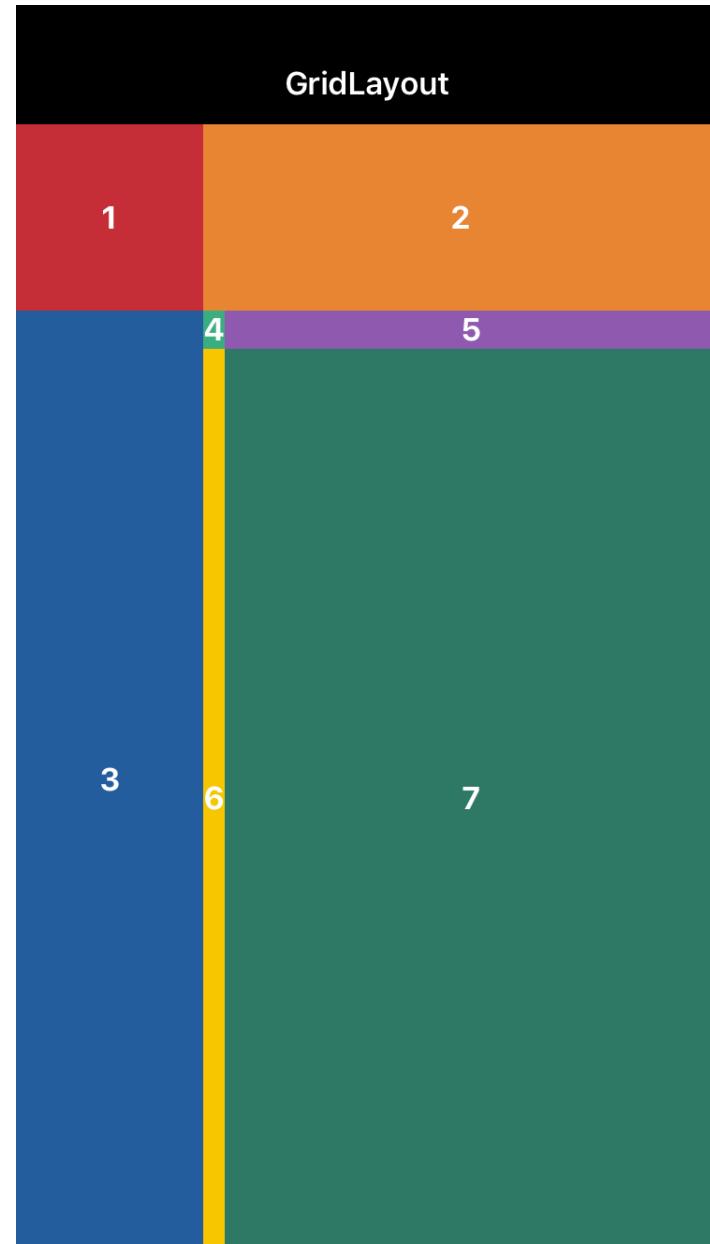
AYOUTS

<https://docs.nativescript.org/ui/layouts>



AYOUTS

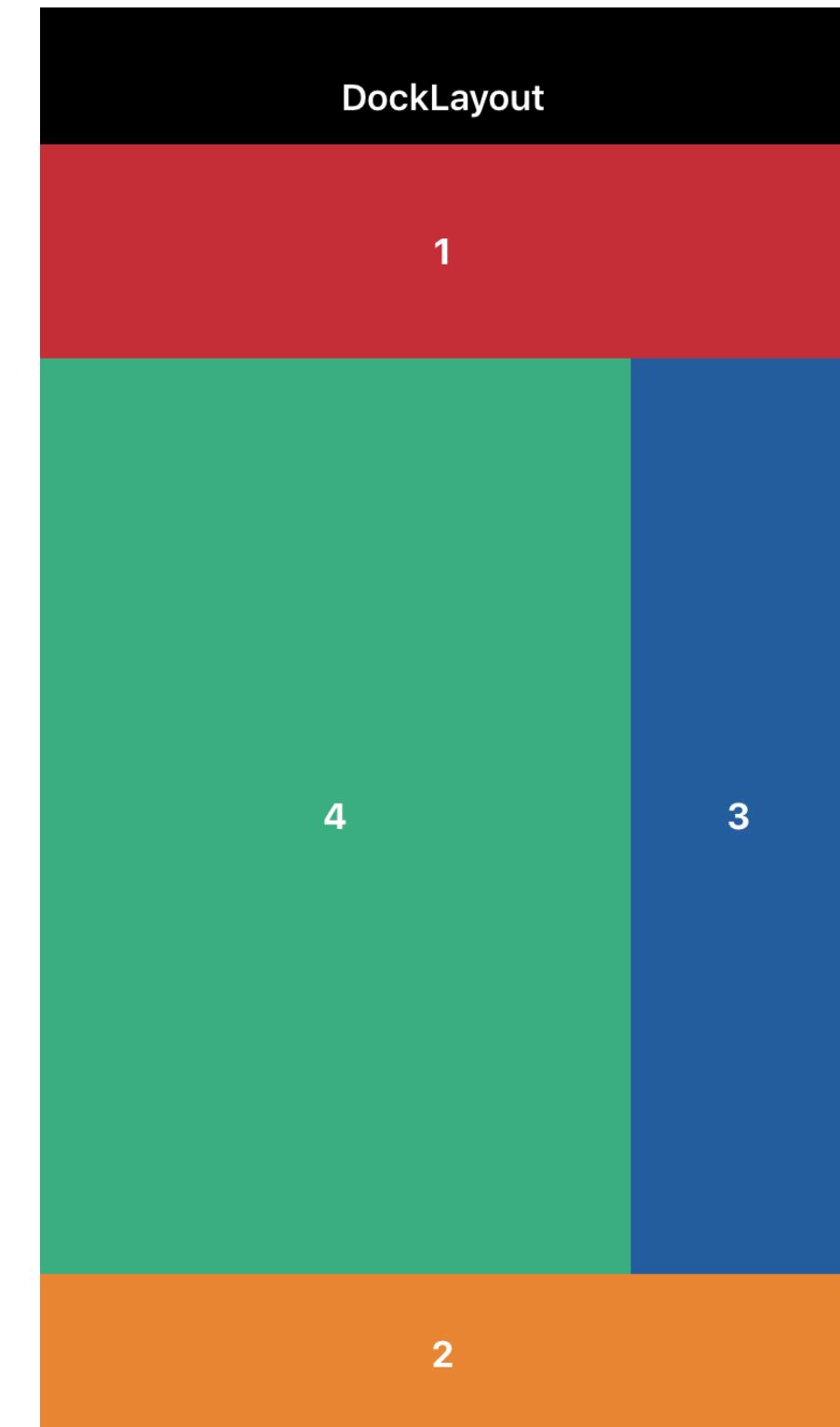
<https://docs.nativescript.org/ui/layouts>



DOCKLAYOUT

<https://docs.nativescript.org/ui/layouts>

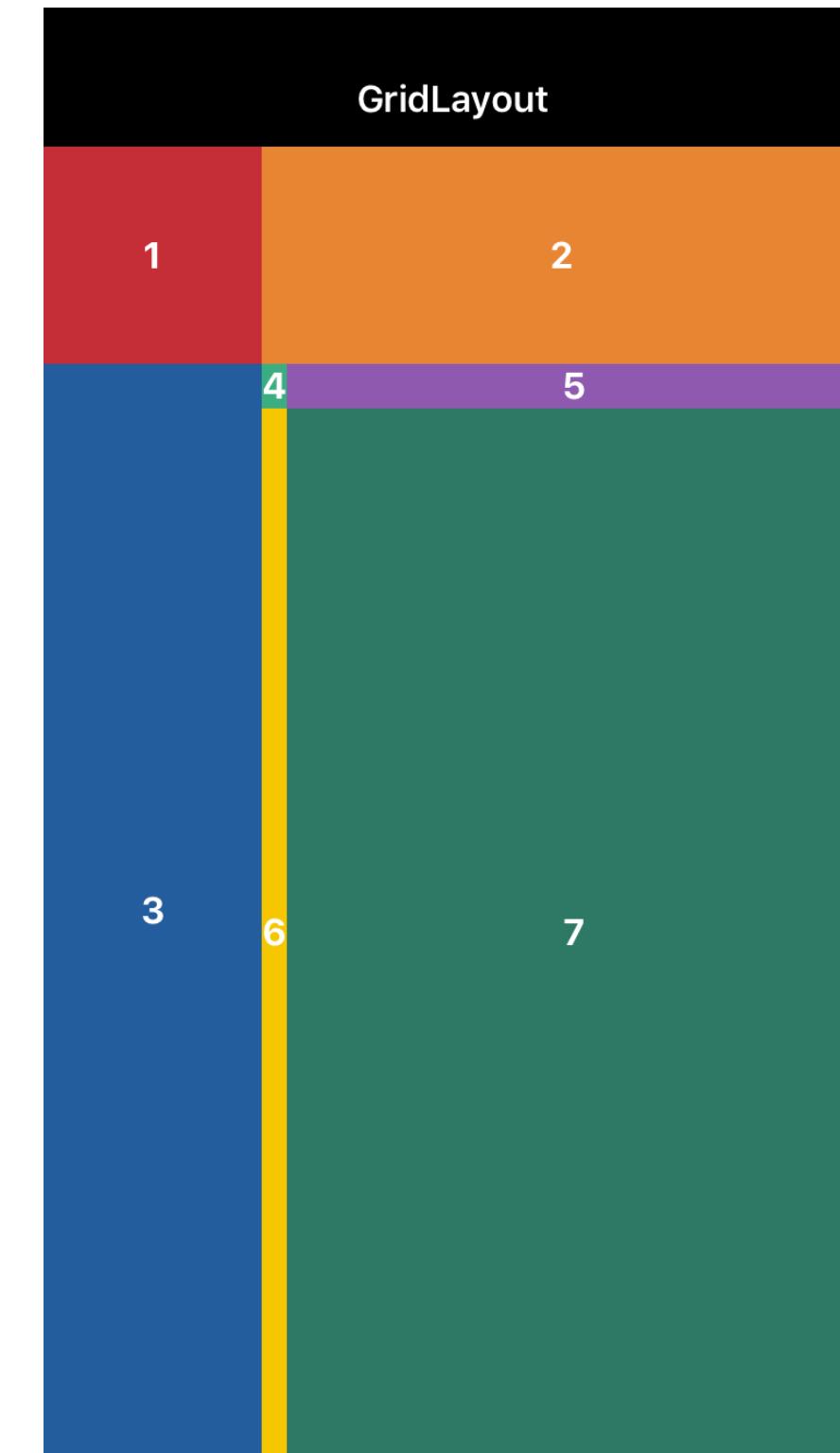
```
<DockLayout height="100%"  
stretchLastChild="true">  
  
    <Label text="1" dock="top"/>  
    <Label text="2" dock="bottom"/>  
    <Label text="3" dock="right"/>  
    <Label text="4" dock="left"/>  
  
</DockLayout>  
  
<!--  
    1 + 2 have fixed height  
    3 has fixed width  
    4 will get all remaining space  
-->
```



GRIDLAYOUT

<https://docs.nativescript.org/ui/layouts>

```
<GridLayout  
    rows="100, auto, *"  
    columns="100, auto, *"  
    >  
    <Label text="1" row="0" col="0">  
    <Label text="2" row="0" col="1"  
        colSpan="2"/>  
    <Label text="3" row="1" col="0"  
        rowSpan="2"/>  
    <Label text="4" row="1" col="1"/>  
    <Label text="5" row="1" col="2"/>  
    <Label text="6" row="2" col="1"/>  
    <Label text="7" row="2" col="2"/>  
</GridLayout>
```





A woman with blonde hair tied back in a ponytail, wearing a red top, is looking down at a laptop screen. The background is a blurred office environment.

CASCADING STYLE SHEETS

CASCADING STYLE SHEETS

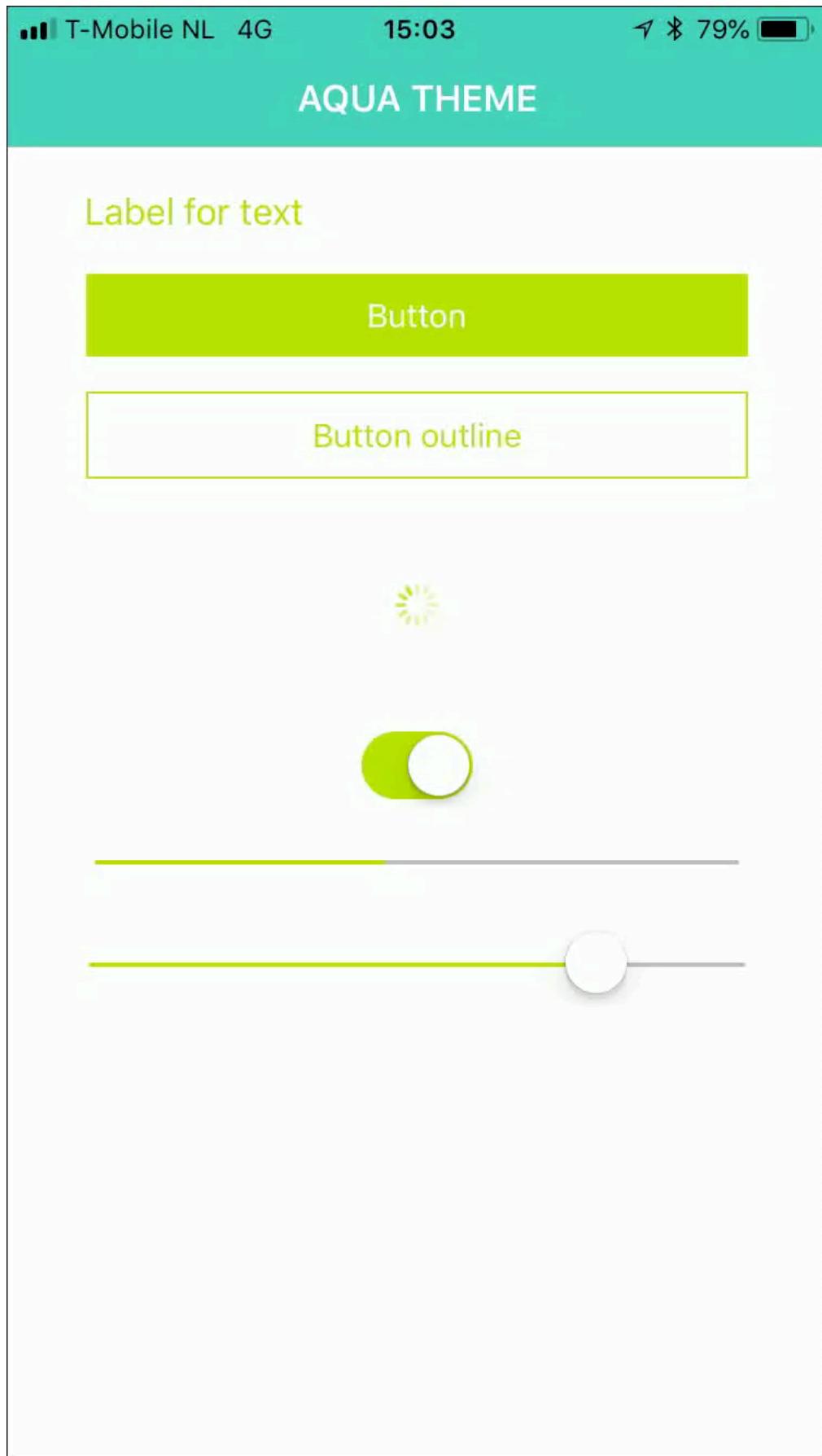
<https://docs.nativescript.org/ui/styling>

- a large subset of CSS properties is supported
- device-independent pixels
- application-wide, page-specific or inline
- platform-specific possible
- animations
- SASS

{N} CORE THEMES

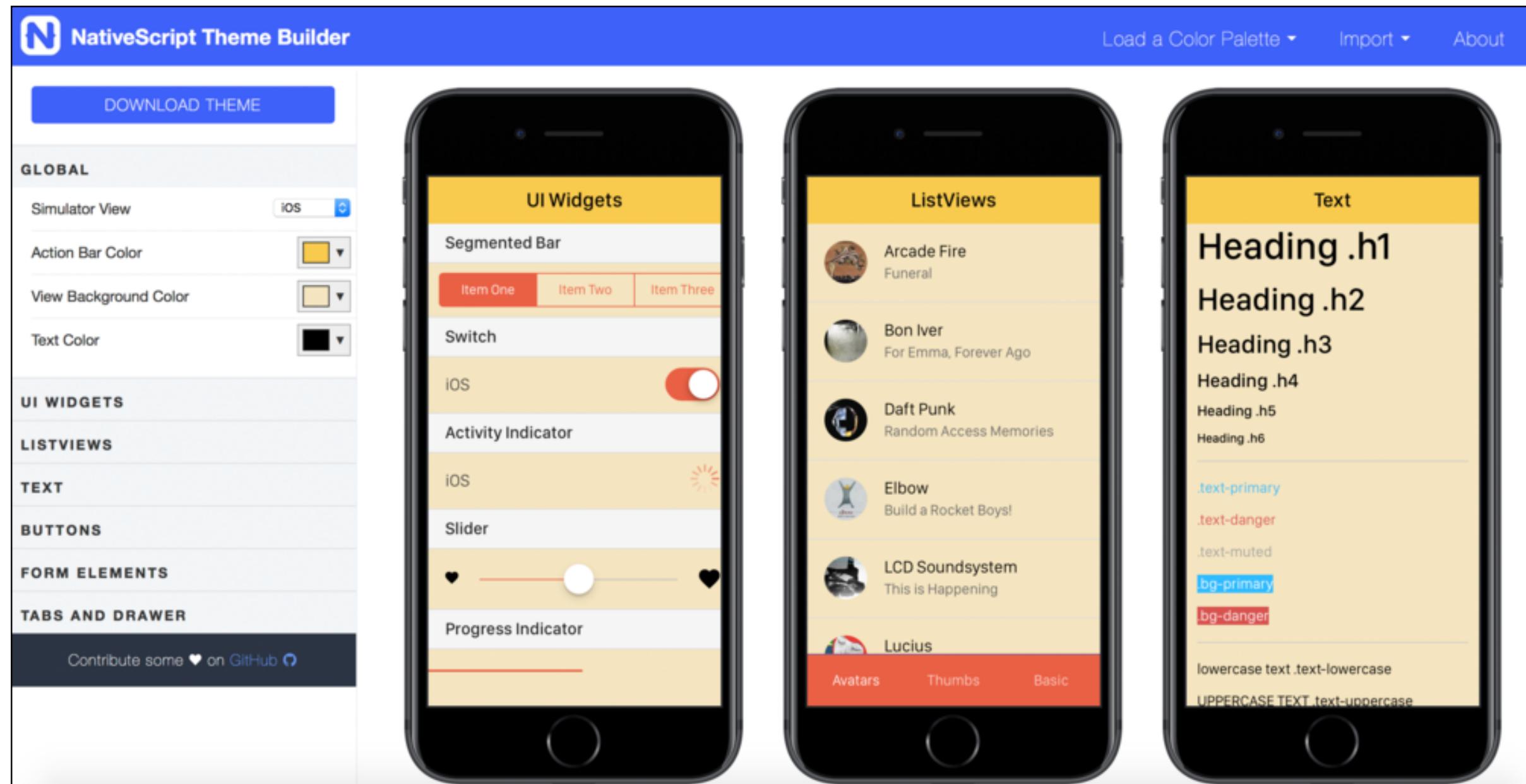
<https://docs.nativescript.org/ui/theme>

- **ready to use color schemes**
- **tailored for iOS and Android**



NATIVESCRIPT THEME BUILDER

<https://www.nativescriptthemebuilder.com>



TABVIEW

```
<TabView height="100%">
  <StackLayout *tabItem="{title: 'Rocket Raccoon'}" class="full rocket"/>
  <StackLayout *tabItem="{title: 'Harley Quinn'}" class="full harley"/>
  <StackLayout *tabItem="{title: 'Hulk'}" class="full hulk"/>
</TabView>
```

TABVIEW

```
.full {  
  background-size: cover;  
  background-position: center;  
  background-repeat: no-repeat;  
}  
  
.rocket { background-image: url("~/images/rocket-raccoon.jpg"); }  
  
.harley { background-image: url("~/images/harley-quinn.jpg"); }  
  
.hulk { background-image: url("~/images/hulk.jpg"); }
```

TabView

ROCKET
RACCOON

HARLEY QUINN

HULK



TabView



Rocket Raccoon

Harley Quinn

Hulk



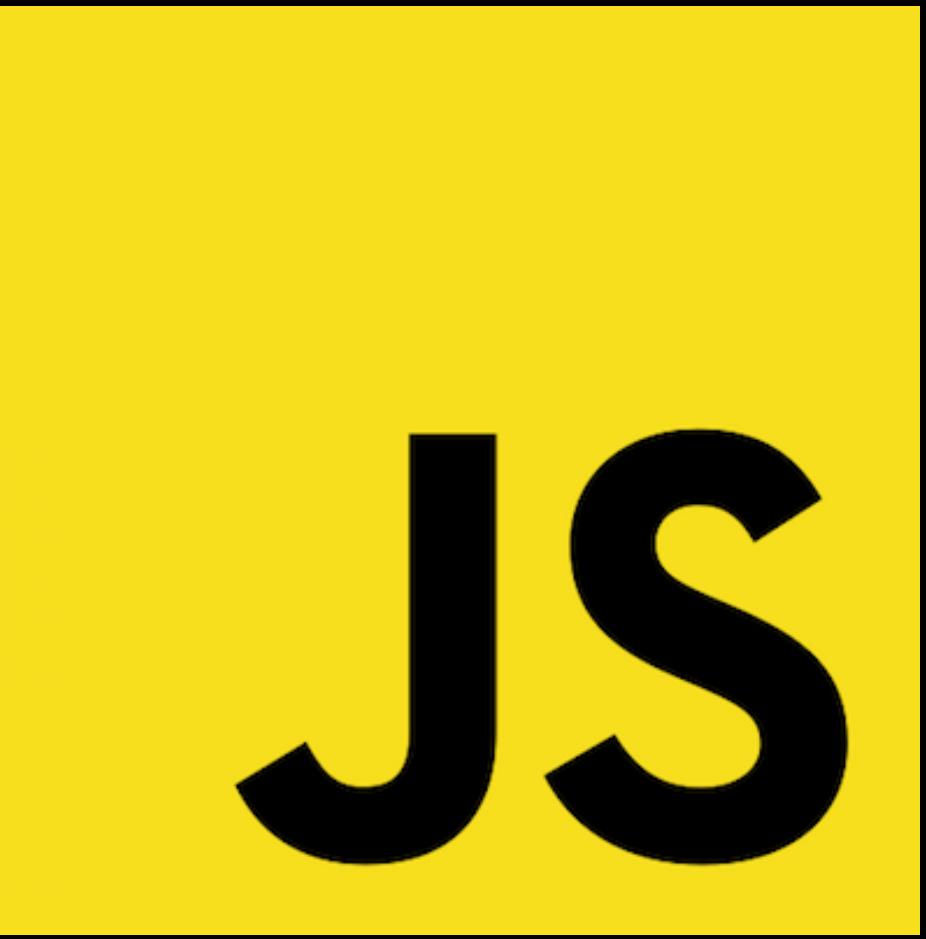
4 FANTASTIC CHOICES





6 BIG HIT PROPS





JAVASCRIPT



TYPESCRIPT



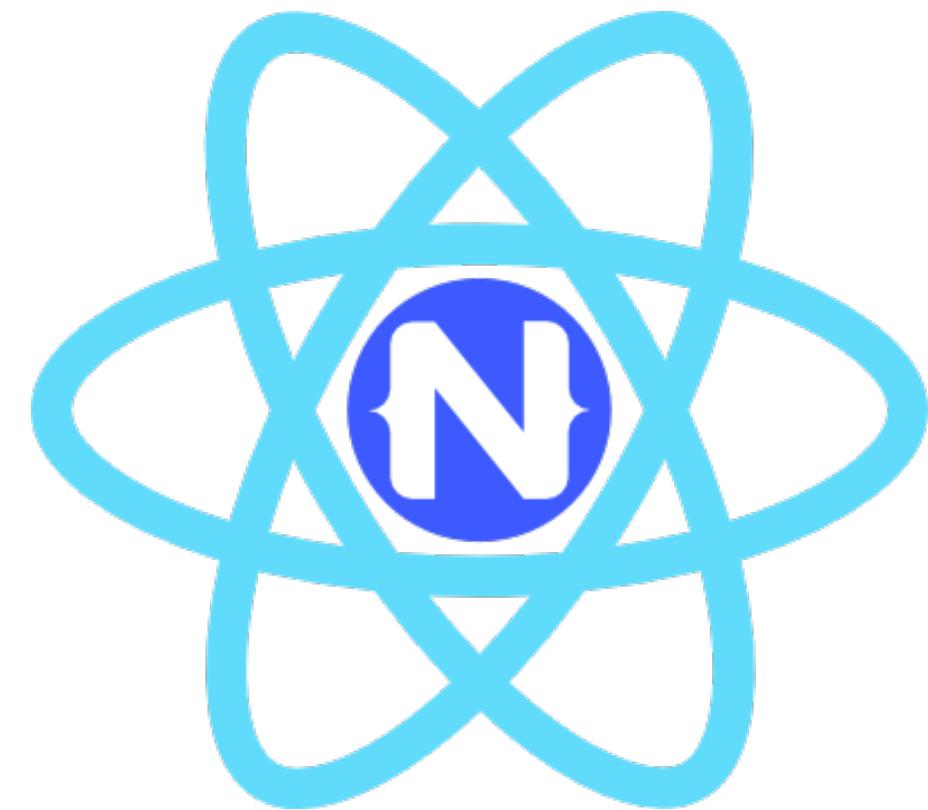
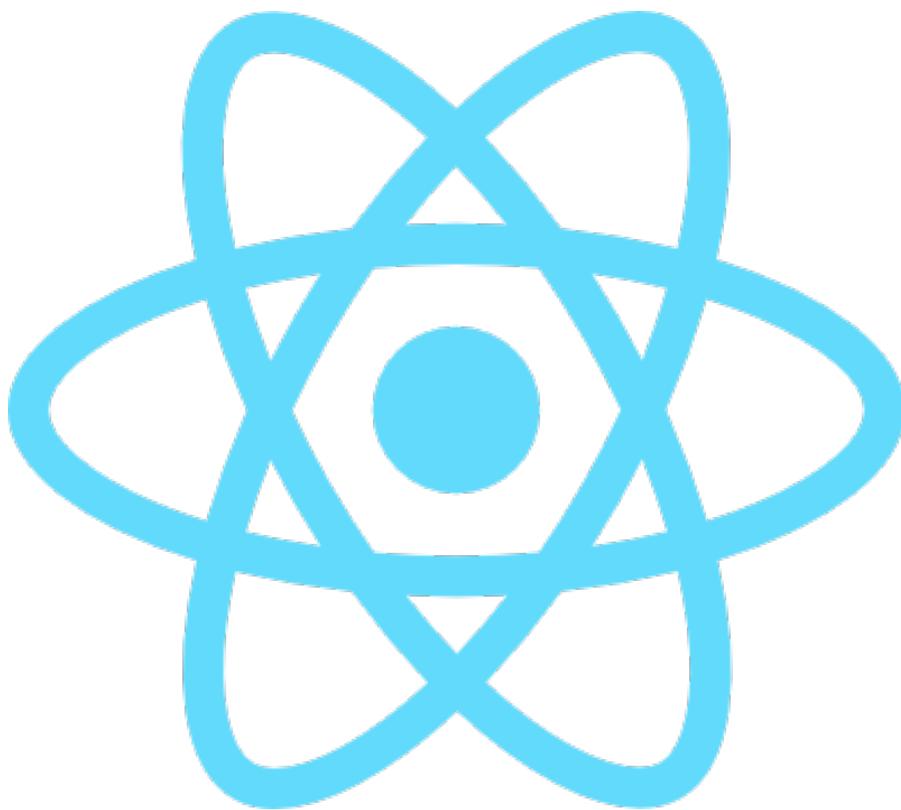
ANGULAR



VUE.js
IGOR RANDJELOVIC (NATIVESCRIPT-VUE)



SVELTE
DAVID PERSHOUSE (SVELTE NATIVE)



REACT

JAMIE BIRCH (REACT NATIVE SCRIPt)



Damaged

NATIVE CODE
OBJECTIVE

Damaged

{N} ANGULAR DIRECTORY STRUCTURE

app/components/slider/

 slider.component.html

 slider.component.css

 slider.component.ts

 slider-routing.module.ts

 slider.module.ts

SLIDER.COMPONENT.HTML

```
<ActionBar>
  <NavigationButton visibility="collapsed"></NavigationButton>
</ActionBar>
<StackLayout>
  <Slider></Slider>
</StackLayout>
```

SLIDER.COMPONENT.CSS

```
ActionBar {  
    background-color: #FFFFFF;  
}
```

```
StackLayout {  
    padding: 50;  
}
```

SLIDER.COMPONENT.TS

```
import { Component } from "@angular/core";  
  
@Component({  
  selector: "app-slider",  
  moduleId: module.id,  
  templateUrl: "slider.component.html",  
  styleUrls: ["slider.component.css"]  
})  
export class SliderComponent {  
  constructor() {}  
}
```

SLIDER-ROUTING.MODULE.TS

```
import { NgModule } from "@angular/core";
import { Routes } from "@angular/router";
import { NativeScriptRouterModule } from "nativescript-angular/router";

import { SliderComponent } from "./slider.component";

const routes: Routes = [{ path: "", component: SliderComponent }];

@NgModule({
  imports: [NativeScriptRouterModule.forChild(routes)],
  exports: [NativeScriptRouterModule]
})
export class SliderRoutingModule {}
```

SLIDER MODULE.TS

```
import { NgModule, NO_ERRORS_SCHEMA } from "@angular/core";
import { NativeScriptModule } from "nativescript-angular/nativescript.module";

import { SliderRoutingModule } from "./slider-routing.module";
import { SliderComponent } from "./slider.component";

@NgModule({
    imports: [NativeScriptModule, SliderRoutingModule],
    declarations: [SliderComponent],
    schemas: [NO_ERRORS_SCHEMA]
})
export class SliderModule {}
```



SLIDER.COMPONENT.HTML

```
<ActionBar>
    <NavigationButton visibility="collapsed"></NavigationButton>
</ActionBar>
<StackLayout>
    <Slider slider-icon></Slider>
</StackLayout>
```

- **attribute directive**
- **changes the appearance or behavior of an element**

SLIDER.DIRECTIVE.TS

```
import { Directive, ElementRef } from "@angular/core";
import { isIOS } from "platform";

@Directive({
  selector: "[slider-icon]"
})
export class SliderIconDirective {
  constructor(private el: ElementRef) {
    if (isIOS) {
      const uiSlider = this.el.nativeElement.ios;
      uiSlider.setThumbImageForState(
        UIImage.imageNamed("image.png"), UIControlState.Normal);
    }
  }
}
```

SLIDER.DIRECTIVE.TS

```
import { Directive, ElementRef } from "@angular/core";
import { isIOS } from "platform";

@Directive({
  selector: "[slider-icon]"
})
export class SliderIconDirective {
  constructor(private el: ElementRef) {
    if (isIOS) {
      const uiSlider = this.el.nativeElement.ios;
      uiSlider.setThumbImageForState(
        UIImage.imageNamed("image.png"), UIControlState.Normal);
    }
  }
}
```

SLIDER.DIRECTIVE.TS

```
import { Directive, ElementRef } from "@angular/core";
import { isIOS } from "platform";

@Directive({
  selector: "[slider-icon]"
})
export class SliderIconDirective {
  constructor(private el: ElementRef) {
    if (isIOS) {
      const uiSlider = this.el.nativeElement.ios;
      uiSlider.setThumbImageForState(
        UIImage.imageNamed("image.png"), UIControlState.Normal);
    }
  }
}
```

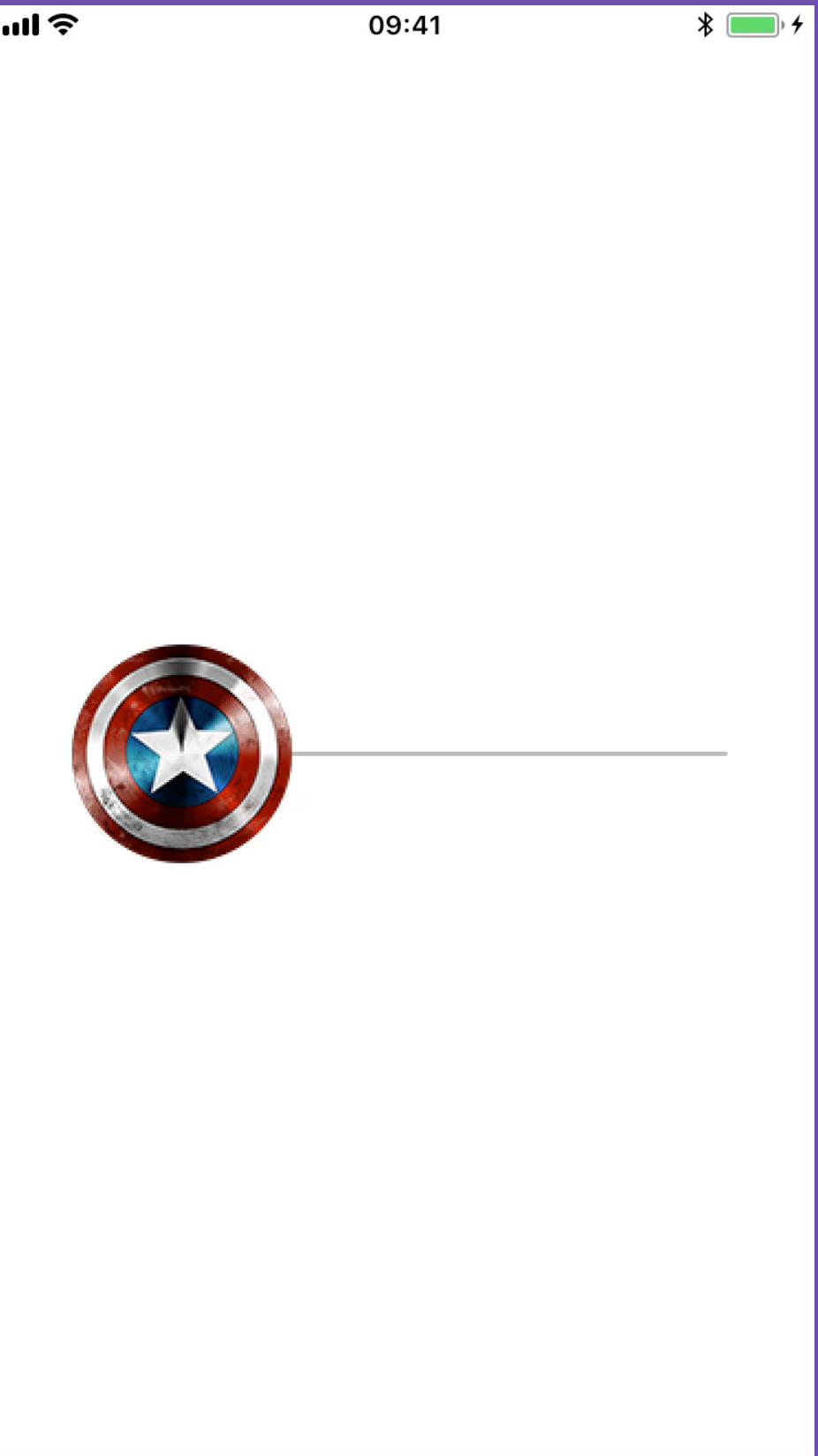
SLIDER MODULE.TS

```
import { NgModule, NO_ERRORS_SCHEMA } from "@angular/core";
import { NativeScriptModule } from "nativescript-angular/nativescript.module";

import { SliderIconDirective } from "./slider.directive";

import { SliderRoutingModule } from "./slider-routing.module";
import { SliderComponent } from "./slider.component";

@NgModule({
  imports: [NativeScriptModule, SliderRoutingModule],
  declarations: [SliderComponent, SliderIconDirective],
  schemas: [NO_ERRORS_SCHEMA]
})
export class SliderModule {}
```



SLIDER.COMPONENT.HTML

```
<ActionBar>
  <NavigationButton visibility="collapsed"></NavigationButton>
</ActionBar>
<StackLayout>
  <AbsoluteLayout>
    <StackLayout #background class="captain" top="0" left="0"></StackLayout>
    <FlexboxLayout class="flexcontainer" top="0" left="0">
      <Slider slider-icon (valueChange)="onSliderChange($event)"></Slider>
    </FlexboxLayout>
  </AbsoluteLayout>
</StackLayout>
```

SLIDER.COMPONENT.CSS

```
.captain {  
  background-image: url("~/assets/images/captain-america.jpg");  
  background-repeat: no-repeat;  
  background-position: center;  
  background-size: cover;  
  height: 100%;  
  width: 100%;  
  opacity: 0;  
}
```

SLIDER.COMPONENT.CSS

```
.flexcontainer {  
    justify-content: center;  
    align-items: center;  
    height: 100%;  
    width: 100%;  
}
```

```
Slider {  
    width: 80%;  
    background-color: #BC1A0F;  
}
```

SLIDER.COMPONENT.TS

```
import { Component, OnInit, ViewChild, ElementRef } from "@angular/core";
import { Page } from "ui/page";
import { Slider } from "ui/slider";
import { StackLayout } from "ui/layouts/stack-layout";
import { TNSPlayer } from "nativescript-audio";

@Component({
  selector: "app-slider",
  moduleId: module.id,
  templateUrl: "slider.component.html",
  styleUrls: ["slider.component.css"]
})
```

SLIDER.COMPONENT.TS

```
export class SliderComponent implements OnInit {
  @ViewChild("background") background: ElementRef;
  private viewStack: StackLayout;
  private player: TNSPlayer;

  constructor(private page: Page) {}

  ngOnInit() {
    this.page.actionBarHidden = true;
    this.viewStack = this.background.nativeElement;
    this.player = new TNSPlayer();
    this.player.initFromFile({
      audioFile: "~/assets/audio/captain.mp3",
      loop: false
    });
  }
}
```

SLIDER.COMPONENT.TS

```
onSliderValueChange(args) {
  let slider = <Slider>args.object;
  // opacity and volume range is 0 - 1
  let sliderValue = slider.value / 100;
  this.viewStack.opacity = sliderValue;
  if (Math.round(slider.value) > 0) {
    this.player.play();
    this.player.volume = sliderValue;
  } else {
    this.player.seekTo(0);
    this.player.pause();
  }
}
```



**PACKAGES
&
LIBRARIES**

NODE PACKAGE MANAGER

- commonly known as npm
- ready to use JavaScript modules
- about 650.000 packages of free, reusable code

ANDROID ARSENAL

- **libraries for Android (Java / Kotlin)**

COCOAPODS

- **libraries for iOS (Objective-C / Swift)**

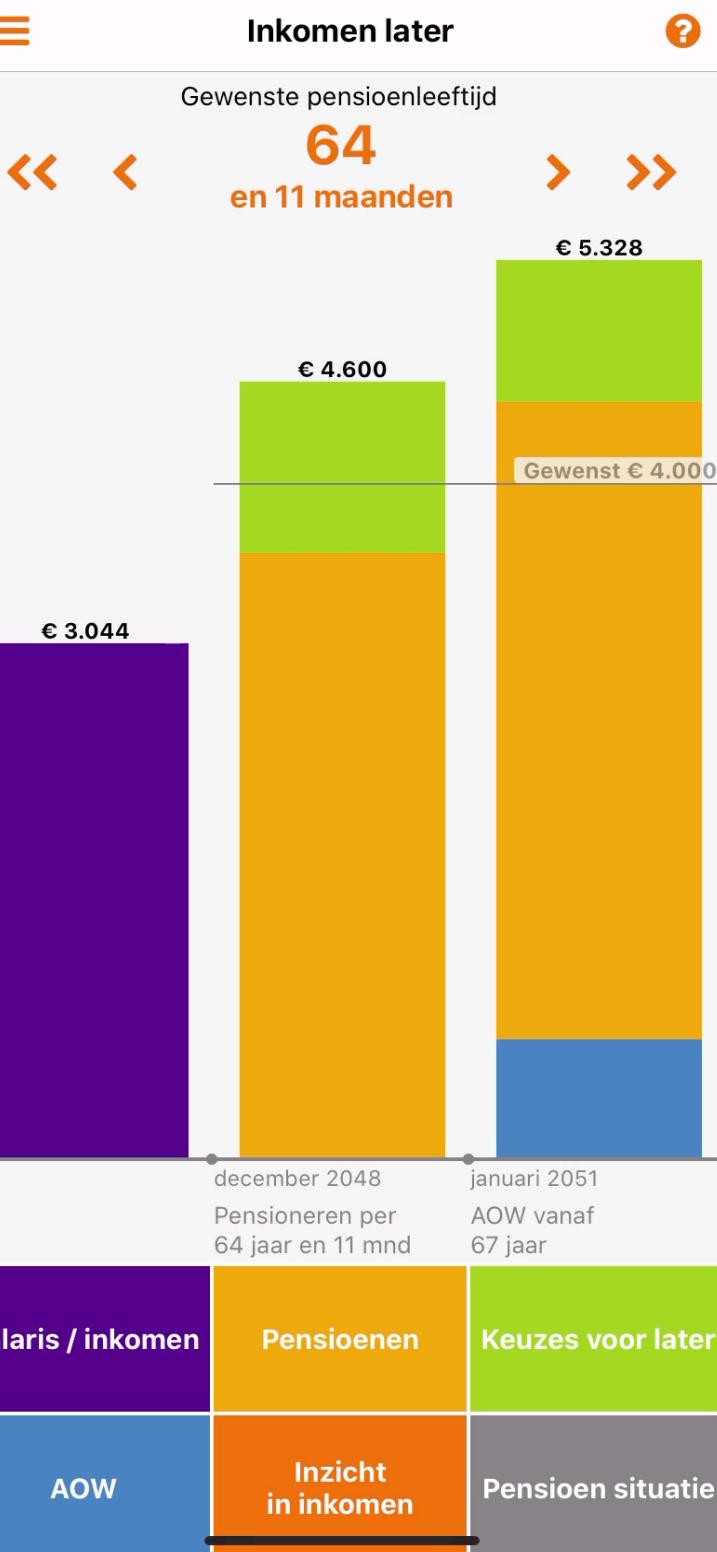




NGX-TRANSLATE

MULTILINGUAL: NGX-TRANSLATE

- **internationalization library for Angular 2+**
- **define translations in different languages**
- **switch between them easily**
- **no hardcoded text/labels, all in one place**
- **start directly, even with one language**

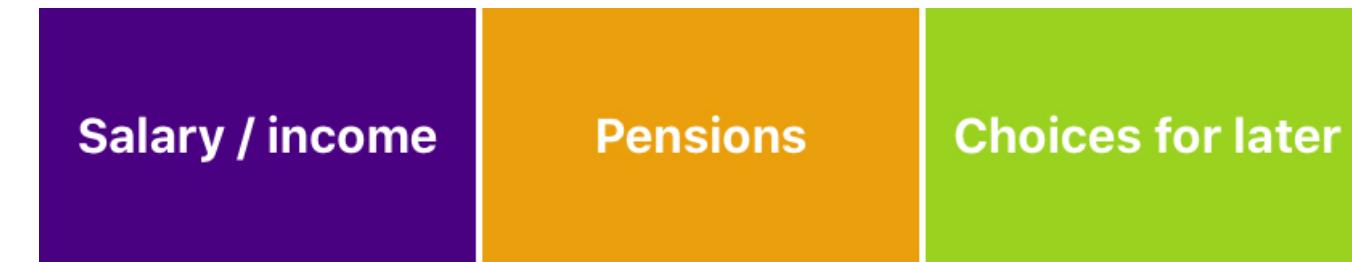


MULTILINGUAL: NGX-TRANSLATE



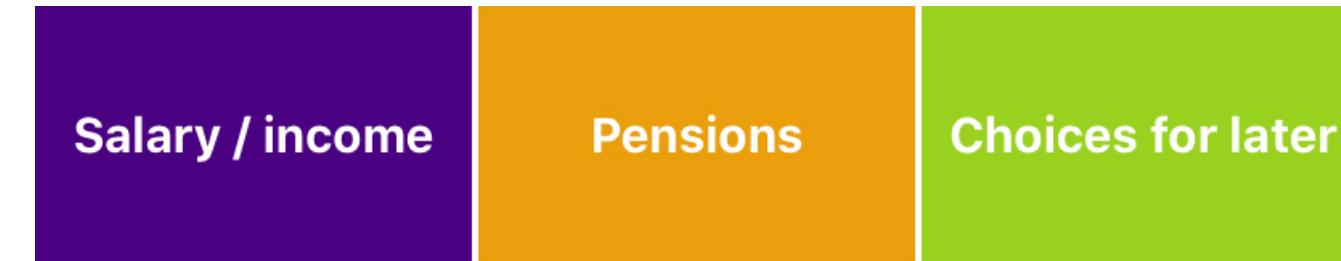
```
{  
  "CHART": {  
    "BUTTONS": {  
      "SALARY": "Salaris / inkomen",  
      "PENSIONS": "Pensioenen",  
      "CHOICES": "Keuzes voor later",  
    },  
    },  
  }  
}
```

MULTILINGUAL: NGX-TRANSLATE



```
{  
  "CHART": {  
    "BUTTONS": {  
      "SALARY": "Salary / income",  
      "PENSIONS": "Pensions",  
      "CHOICES": "Choices for later",  
    },  
  },  
}
```

MULTILINGUAL: NGX-TRANSLATE



```
<Button [text]="'CHART.BUTTONS.SALARY' | translate"></Button>
<Button [text]="'CHART.BUTTONS.PENSIONS' | translate"></Button>
<Button [text]="'CHART.BUTTONS.CHOICES' | translate"></Button>
```

[] = one way data binding in Angular

| = display-value transformations



NATIVESCRIPT PLUGINS



WHAT ARE {N} PLUGINS?

When the NativeScript core modules do not provide the native device or platform capability that you need, you can use plugins.

- usually for both iOS and Android
- JavaScript interface to native platform code

**VERSION-NUMBER
PLUG-IN**



VERSION-NUMBER PLUGIN

- » **version-number.d.ts**
- » **version-number.ios.ts**
- » **version-number.android.ts**
- » **package.json**

VERSION-NUMBER.D.TS

```
export declare class VersionNumber {  
    constructor();  
  
    getVersion(): string;  
}
```

VERSION-NUMBER.IOS.TS

```
declare let NSBundle: any;

export class VersionNumber {
    constructor() {}

    getVersion(): string {
        let version = NSBundle mainBundle.objectForInfoDictionaryKey(
            "CFBundleShortVersionString"
        );
        return version;
    }
}
```

VERSION-NUMBER.IOS.TS

```
declare let NSBundle: any;

export class VersionNumber {
    constructor() {}

    getVersion(): string {
        let version = NSBundle mainBundle objectForInfoDictionaryKey(
            "CFBundleShortVersionString"
        );
        return version;
    }
}
```

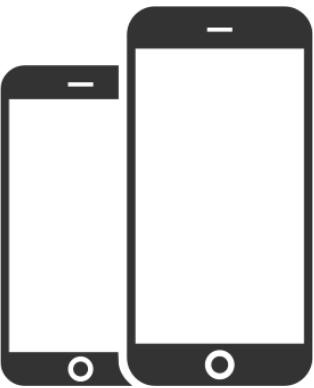
NSBUNDLE

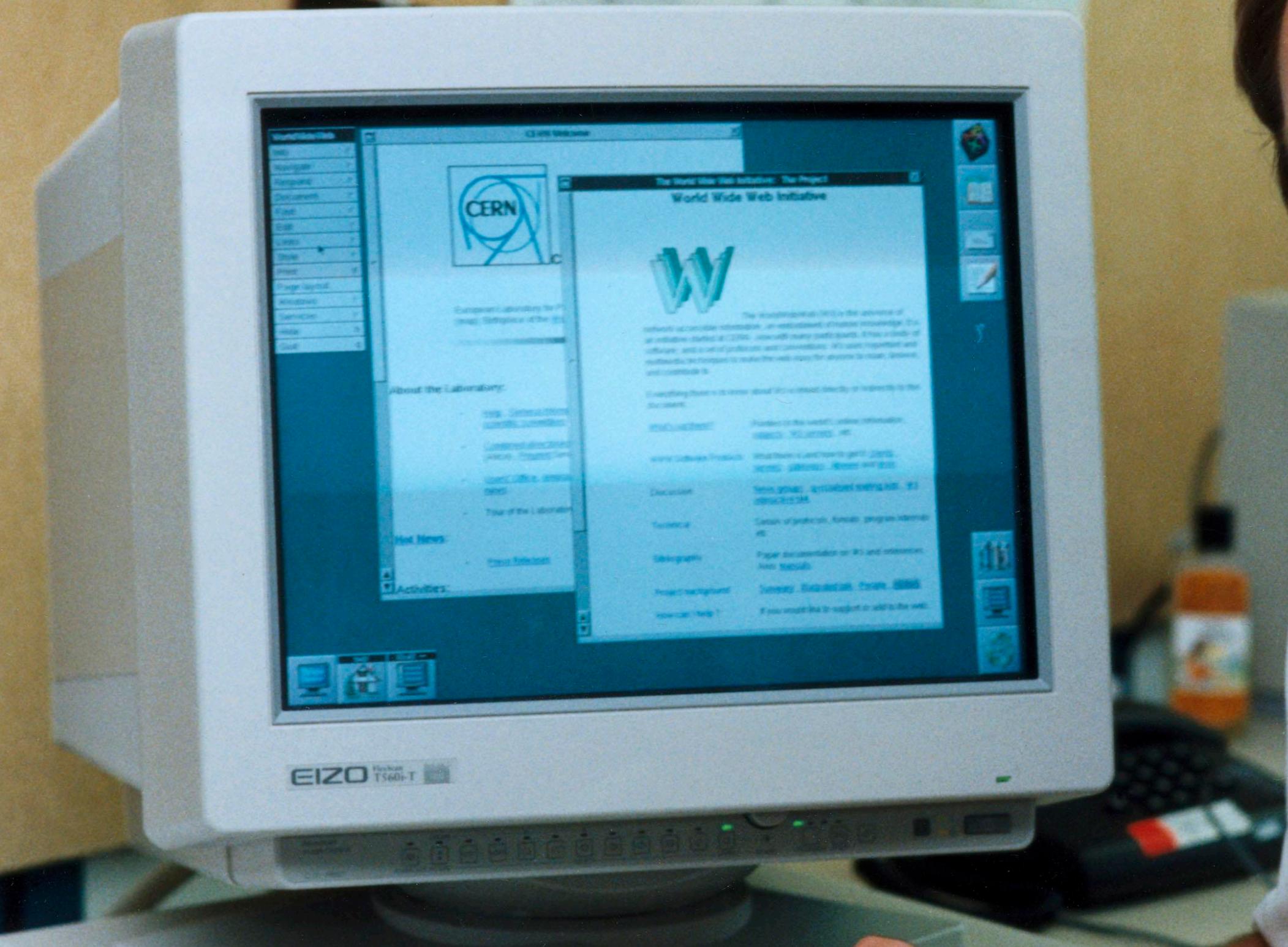
**NSView, NSScrollView, NSButton, NSImageView, NSSwitch,
NSMenu, NSSStatusBar, NSPanel, NSWindowTab, NSAlert,
NSColorPicker, NSAnimationEffect, NSSpeechRecognizer,
NSHapticFeedbackPerformer, ...**

INFERNO











21

AMMO

45%

HEALTH

2 3 4
5 6 7
ARMS



4%
ARMOR

BULL 0
SHEL 24
ROKT 1
CELL 20

200
50
50
300



VERSION-NUMBER.ANDROID.TS

```
import * as application from "tns-core-modules/application";

declare let android: any;
declare let java: any;

export class VersionNumber {
    constructor() {}

    getVersion(): string {
        let PackageManager = android.content.pm.PackageManager;
        let pkg = application.android.context
            .getPackageManager()
            .getPackageInfo(
                application.android.context.getPackageName(),
                PackageManager.GET_META_DATA
            );
        return java.lang.Integer.toString(pkg.versionCode);
    }
}
```

VERSION-NUMBER.ANDROID.TS

```
import * as application from "tns-core-modules/application";

declare let android: any;
declare let java: any;

export class VersionNumber {
    constructor() {}

    getVersion(): string {
        let PackageManager = android.content.pm.PackageManager;
        let pkg = application.android.context
            .getPackageManager()
            .getPackageInfo(
                application.android.context.getPackageName(),
                PackageManager.GET_META_DATA
            );
        return java.lang.Integer.toString(pkg.versionCode);
    }
}
```

ANDROIDMANIFEST.XML

```
<?xml version="1.0" encoding="utf-8"?>
<manifest
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:versionCode="2">
    ...
</manifest>
```

PACKAGE.JSON

```
{  
  "name": "nativescript-version-number",  
  "version": "1.0.0",  
  "main": "version-number",  
  "typings": "version-number.d.ts",  
  "nativescript": {  
    "platforms": {  
      "android": "6.0.0",  
      "ios": "6.0.1"  
    }  
  }  
  ...  
}
```

INSTALL

```
# install from NPM
```

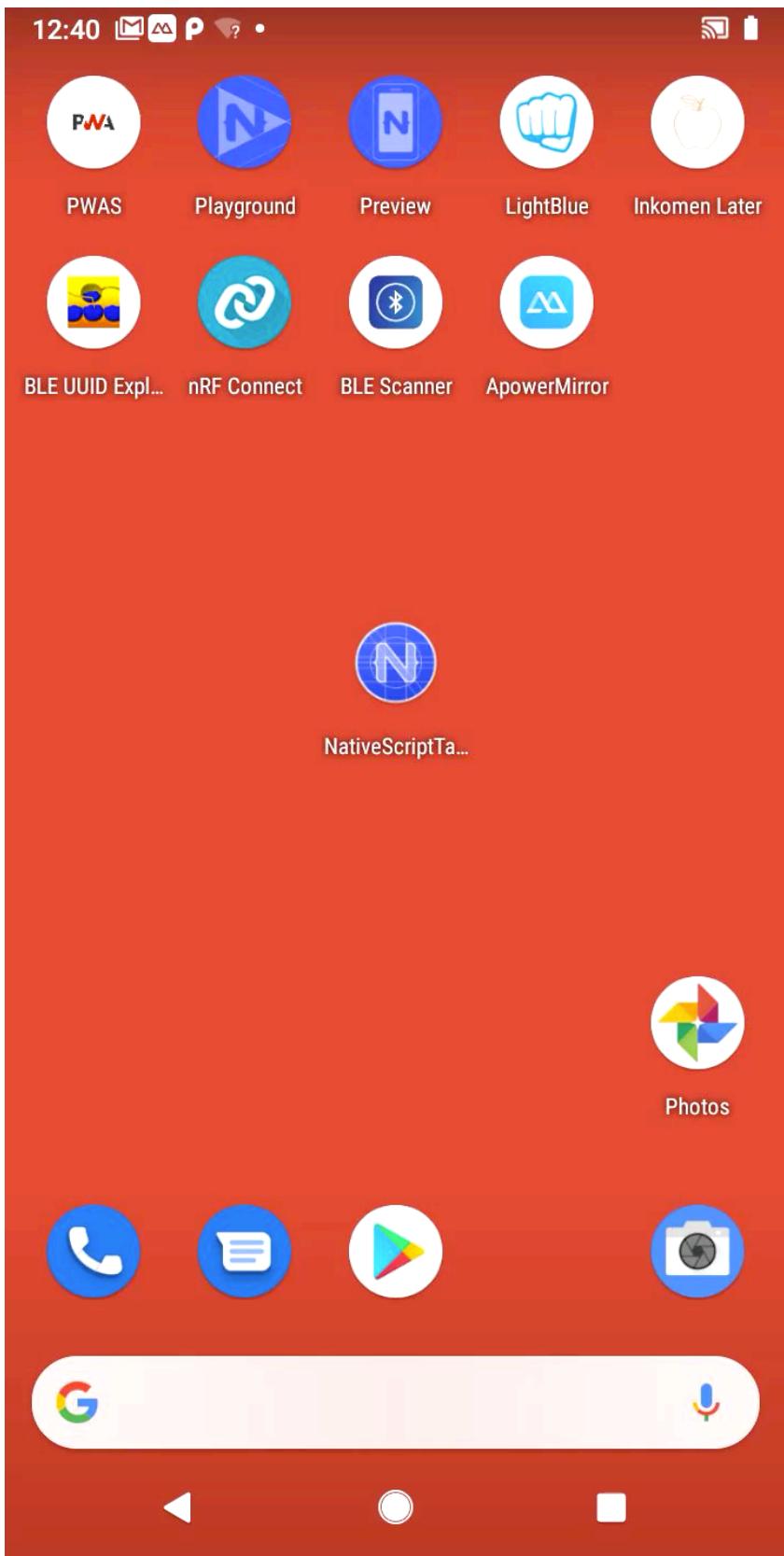
```
tns plugin add nativescript-version-number
```

```
# install from local
```

```
tns plugin add ./nativescript-version-number
```

USAGE

```
import { VersionNumber } from "nativescript-version-number";  
  
const version = new VersionNumber().getVersion();
```

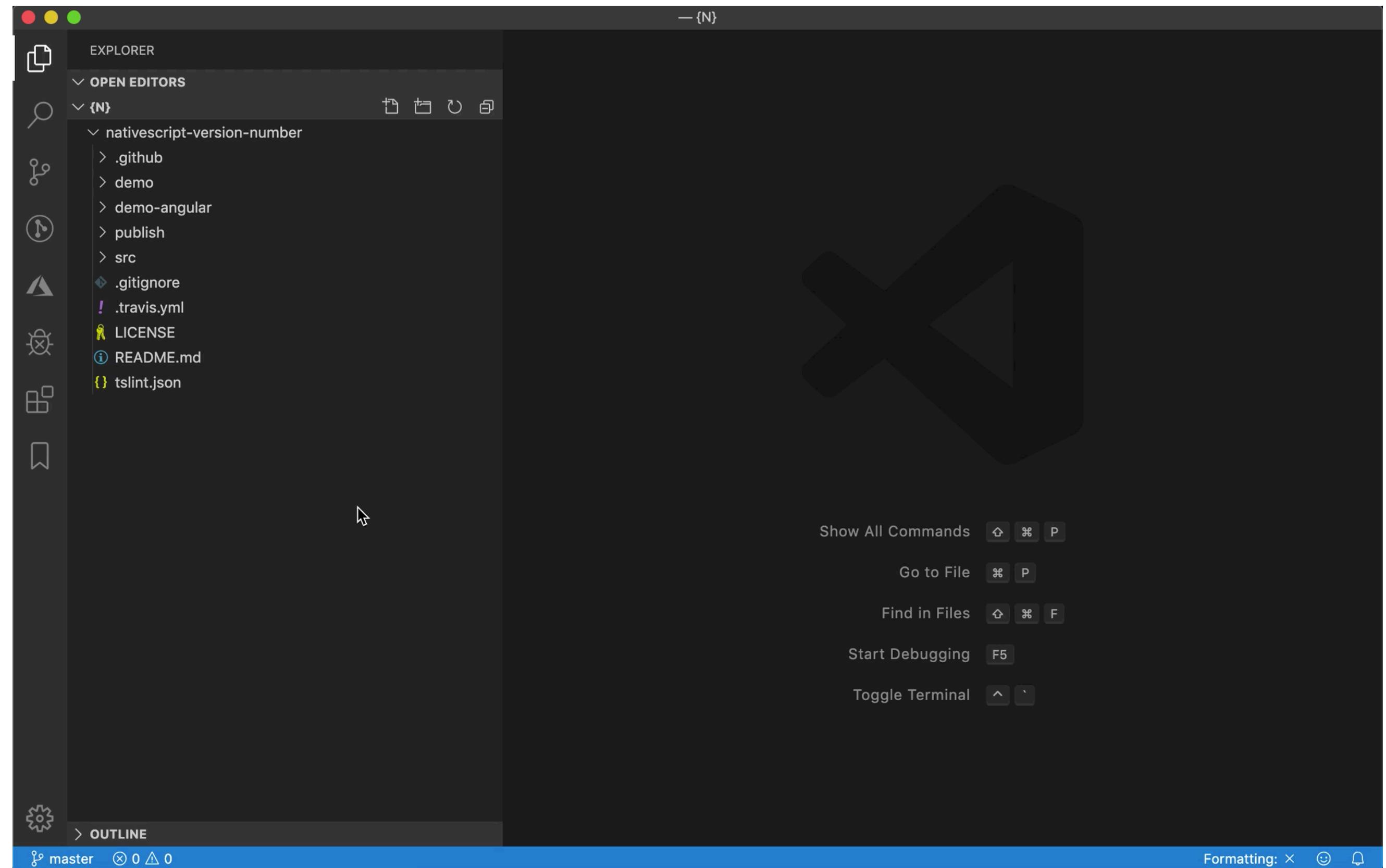


PIRELLUGGIAN
BOILERPLATE





Skynet-2:{N} rowdy\$ tns plugin create nativescript-version-number



NATIVESCRIPT MARKETPLACE

 NativeScript | Marketplace

Authors | Privacy | NativeScript.org

Plugins Templates Samples

SUBMIT PLUGIN

Search for plugins

Recently Added

 **Chasexc NativeScript Fingerprint Auth**
by chasexc | Version 7.0.2
A fingerprint authentication plugin for use in NativeScript apps


 **Fitness**
by donswayo | Version 1.4.0
Google Fit and Apple HealthKit.


 **Set Version**
by farfromrefuge | Version 0.1.5

Recently Updated

 **OAuth 2**
by Alexander Ziskind | Version 2.3.0
OAuth 2 generic authorization plugin for NativeScript that doesn't install third party native libraries


 **Nota NativeScript Webview Ext**
by Morten Sjøgren | Version 6.2.1
Extended WebView for NativeScript which adds 'x-local' scheme for local-files, events between WebView and native-layer, javascript execution, injecting CSS and JS-files.


NATIVESCRIPT MARKETPLACE

The screenshot shows the NativeScript Marketplace interface. At the top, there's a blue header bar with the NativeScript logo and the text "NativeScript | Marketplace". To the right of the header are links for "Authors", "Privacy", and "NativeScript.org". Below the header, there are three navigation tabs: "ALL", "GENERAL" (which is underlined), and "HEALTHCARE".

The main content area displays four template cards:

- Blank**: A card for a blank template. It shows a screenshot of a white screen labeled "Home". Below the screenshot, it says "by NativeScript Team | Version 6.2.4" and includes Angular (A), Vue (V), TypeScript (TS), and JavaScript (JS) icons.
- Drawer Navigation**: A card for a side navigation template. It shows a screenshot of a mobile app with a blue header bar and a sidebar containing "User Name", "username@mail.com", "Home", "Browse", "Search", "Featured", and "Settings". Below the screenshot, it says "by NativeScript Team | Version 6.2.4" and includes Angular (A), Vue (V), TypeScript (TS), and JavaScript (JS) icons. It also notes "Side navigation template".
- Tab Navigation**: A card for a tabbed interface template. It shows a screenshot of a mobile app with a blue header bar and a list of items from "Item 1" to "Item 11". Below the list is a footer with "Home", "Browse", and "Search" buttons. Below the card, it says "by NativeScript Team | Version 6.2.4" and includes Angular (A), Vue (V), TypeScript (TS), and JavaScript (JS) icons. It also notes "Tabbed interface template".
- Browse**: Two smaller screenshots of a "Browse" screen. The first screenshot shows a blue header bar with "Browse" and "BMW E Series" text. The second screenshot shows a similar blue header bar with "Browse" and "BMW E Series" text.

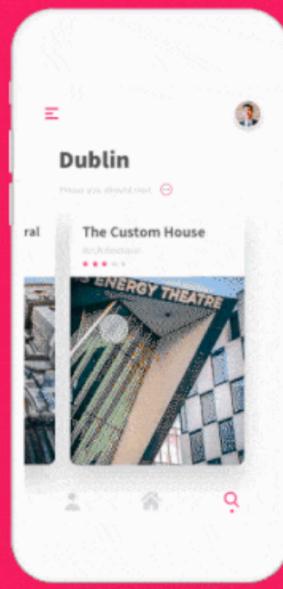
NATIVESCRIPT MARKETPLACE

 NativeScript | Marketplace

Authors | Privacy | NativeScript.org

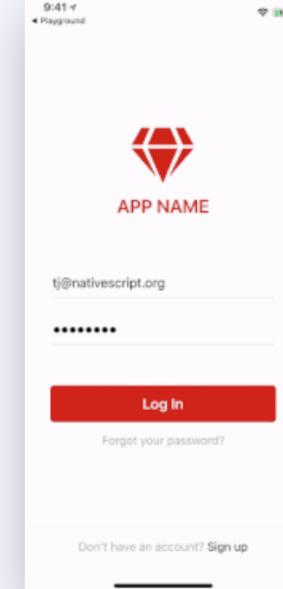
FRAMEWORKS
[All](#) Angular Vue Core React

CATEGORIES
[All](#) Layouts & Pages Forms & Data Interaction Animations Media



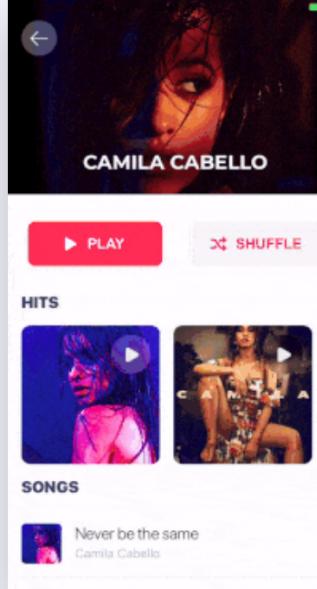
Animated Search
by Clément Roche 

Rich animations power this city guide sample app, including a card-based UI.



Building a Good-Looking Login Form
by Multiple authors   

A good looking login/registration experience is a must have for any app. Here is a simple yet elegant looking login form example.



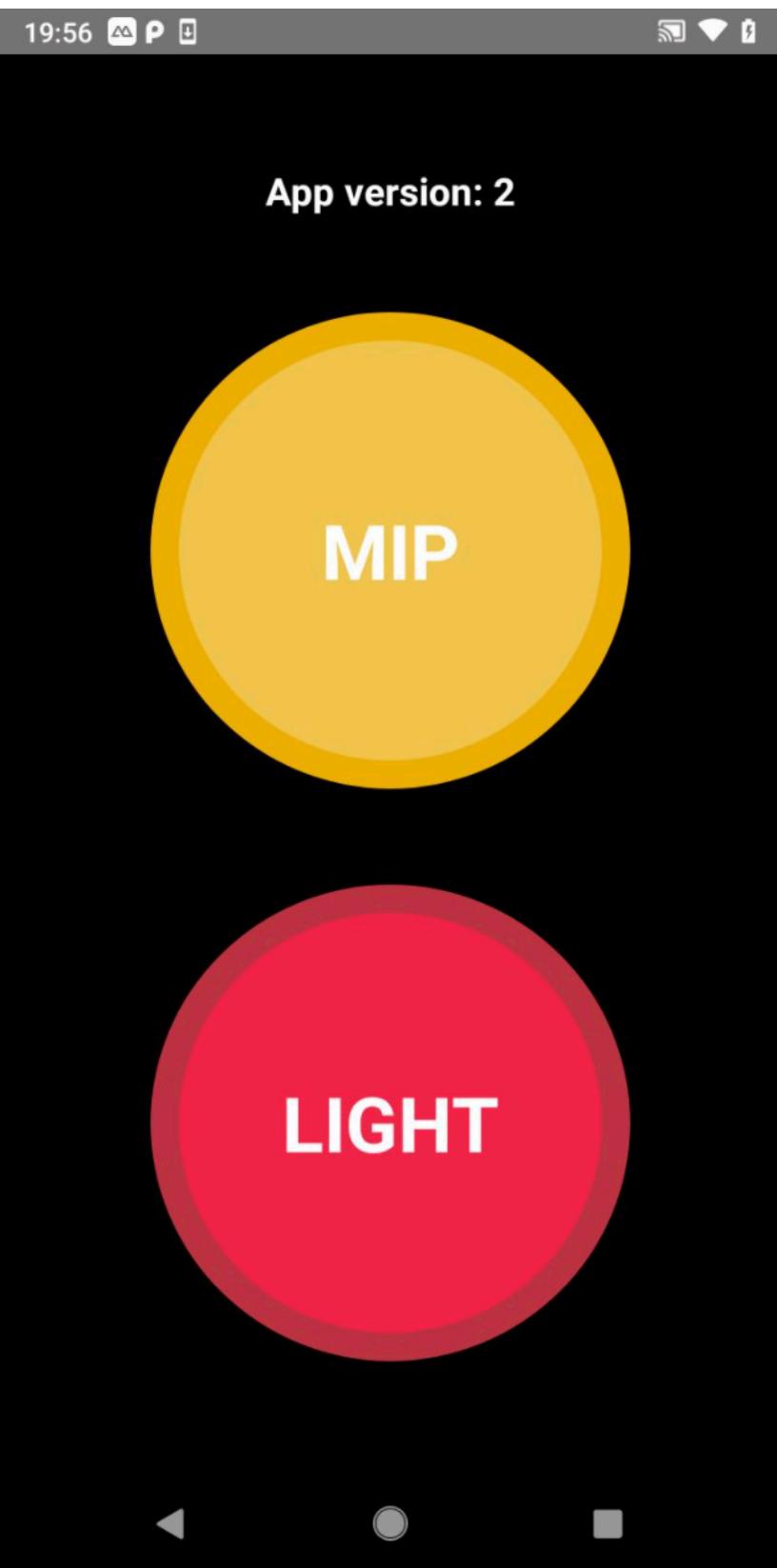
Music Streaming App
by Yassine Zanina  

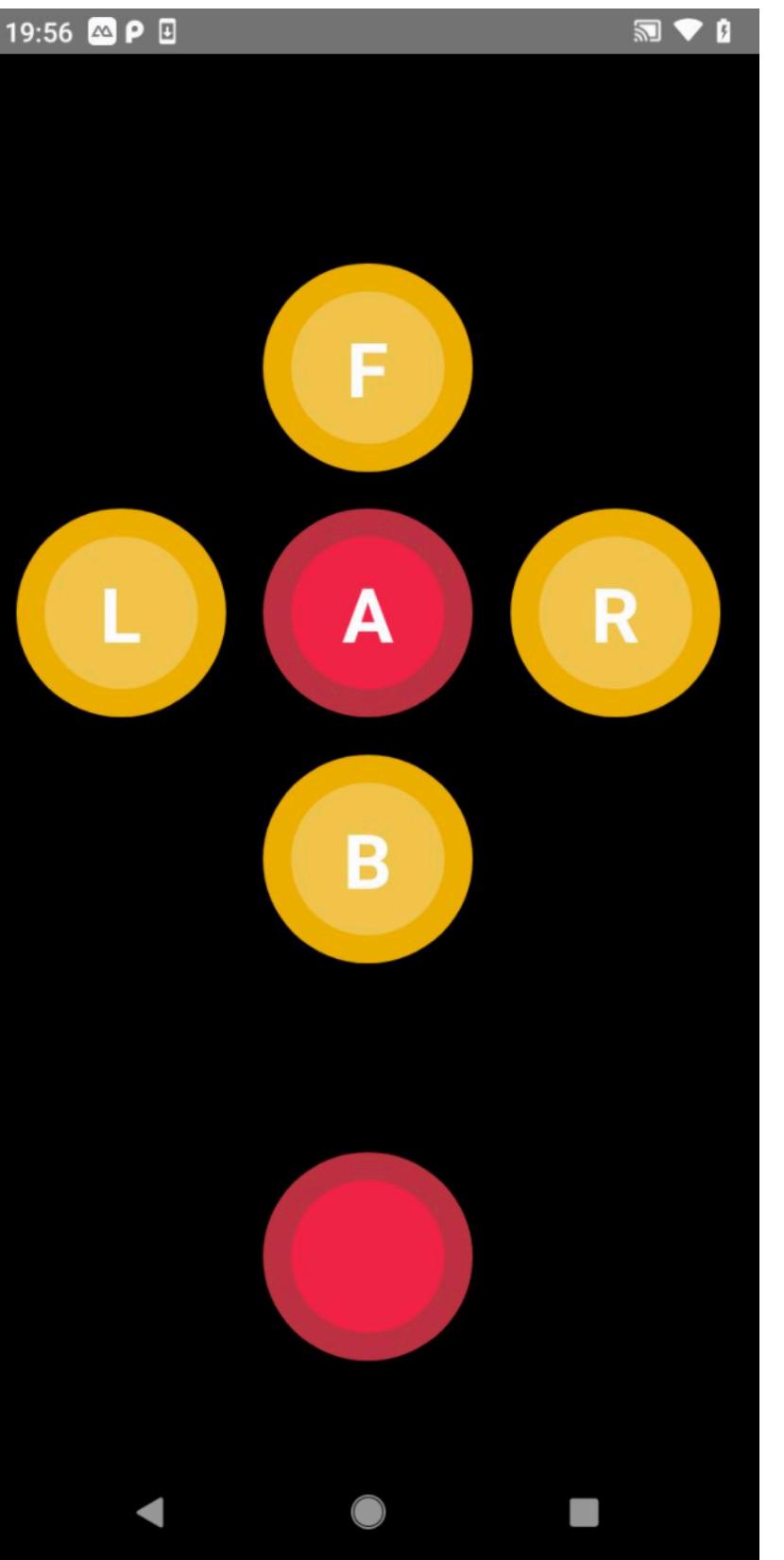
This sample app contains an amazing design for to help bootstrap the next great music streaming app.

GNB PIUGGINS
DELMONI

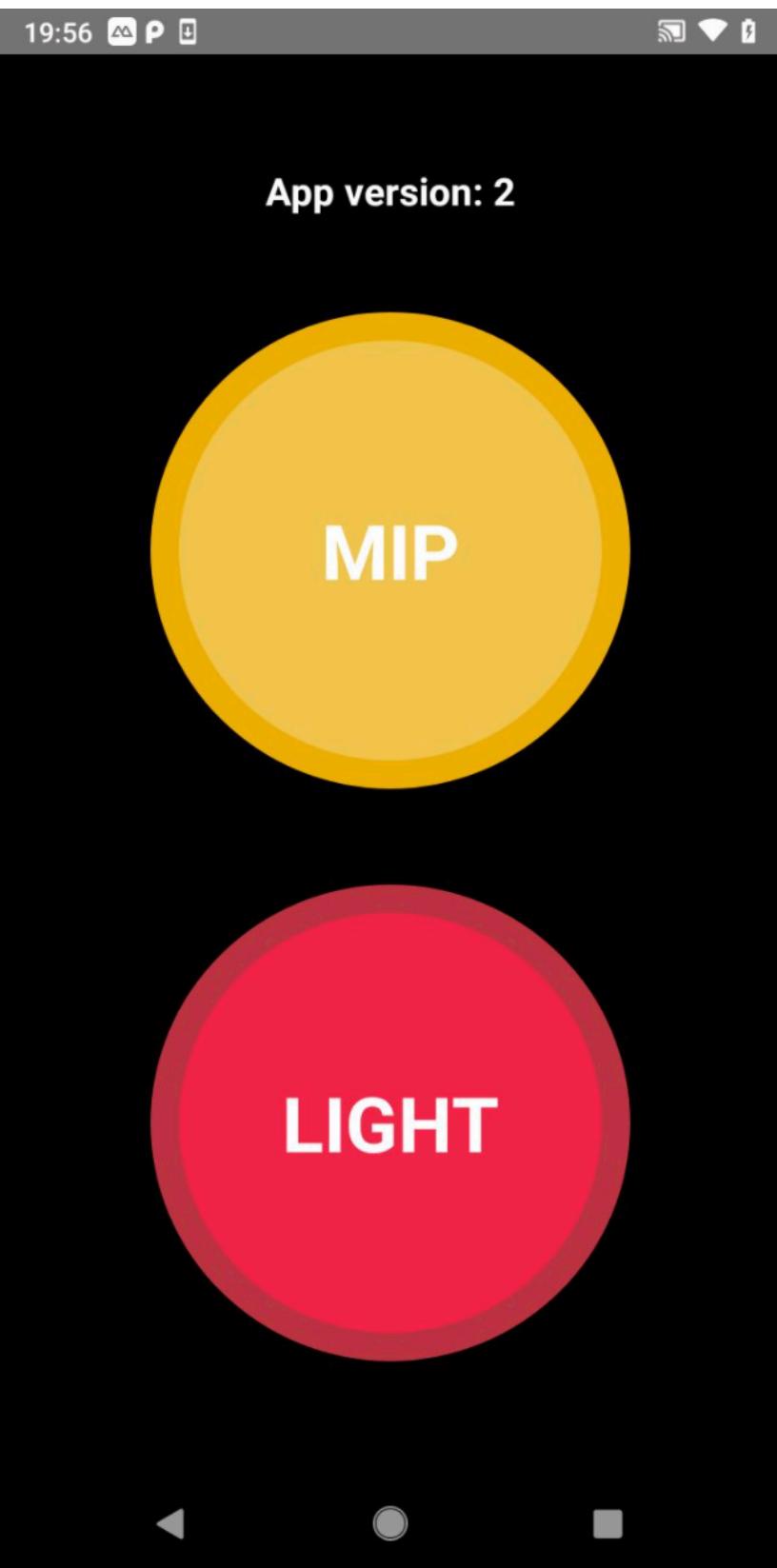


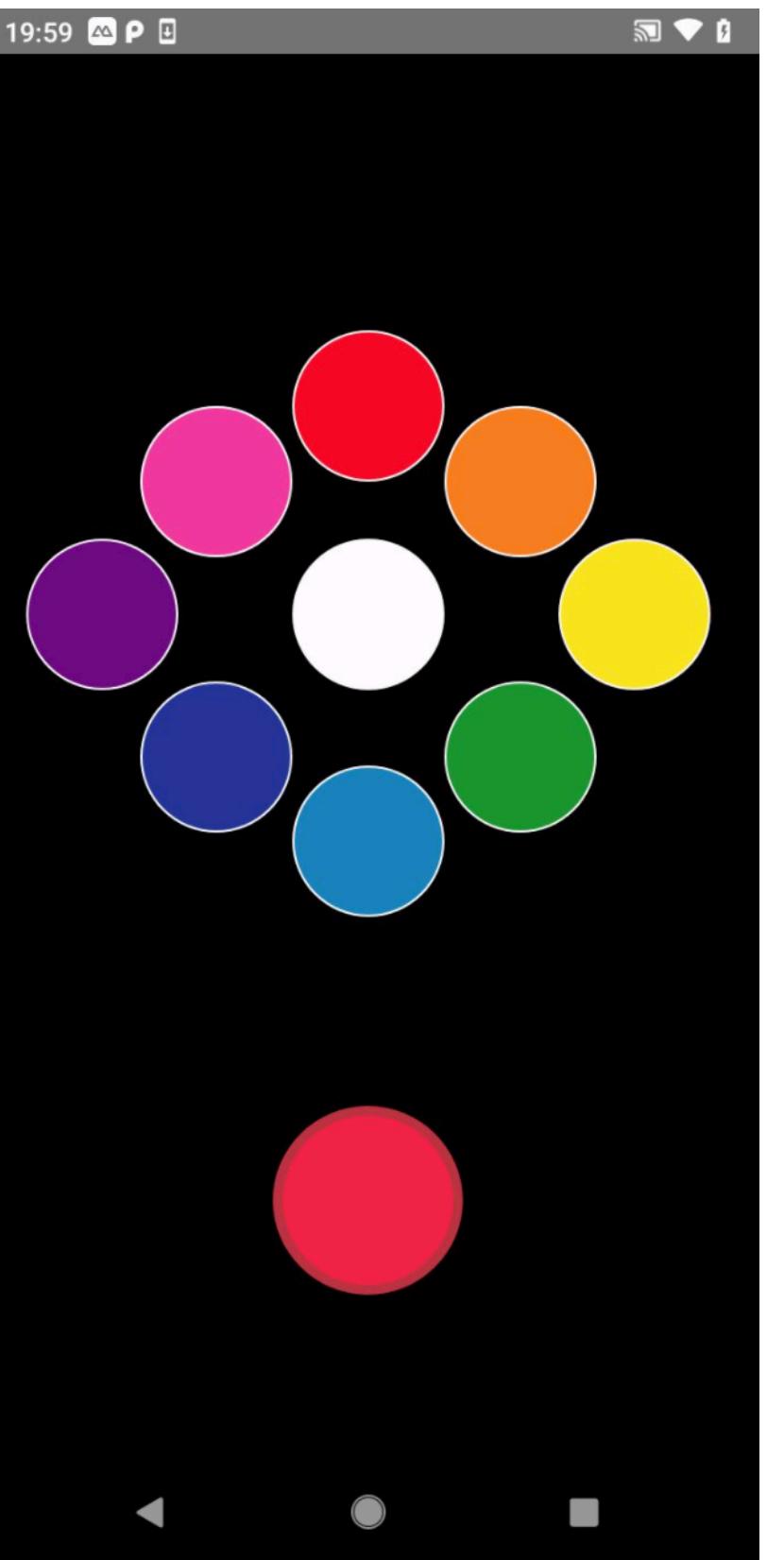












NATIVESCRIPT-BLUETOOTH

```
import * as bluetooth from "nativescript-bluetooth";

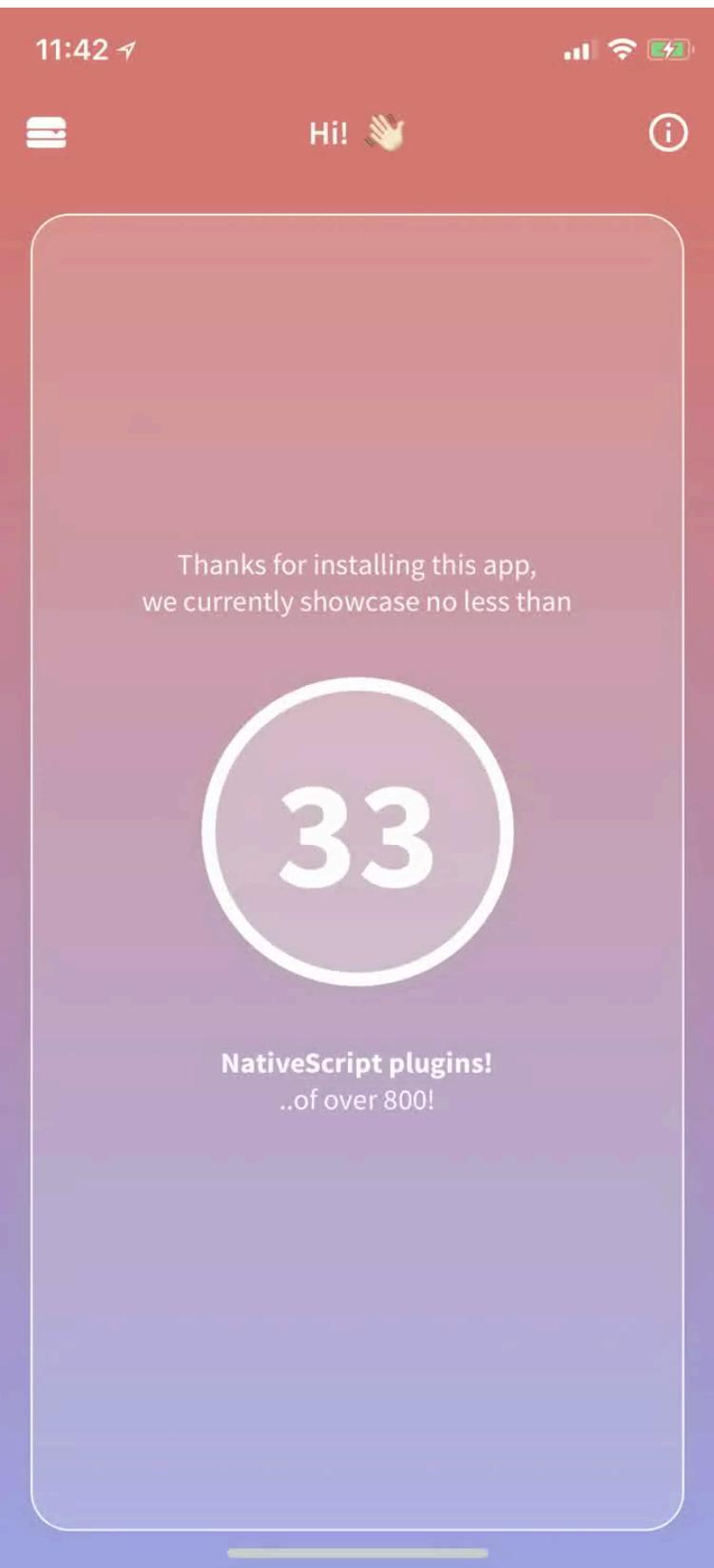
bluetooth.startScanning({
    seconds: 4,
    onDiscovered: peripheral => {
        if (peripheral.UUID == "CA9F644C-1920-4572-8833-1D137A6T2A05") {
            bluetooth.connect({
                UUID: peripheral.UUID,
                onConnected: peripheral => {
                    bluetooth.stopScanning();
                    // do stuff
                }
            });
        }
    }
});
```

NATIVESCRIPT-ACCELEROMETER

```
import { startAccelerometerUpdates } from "nativescript-accelerometer";

startAccelerometerUpdates(data => {
    // lean left (0 to -1) / right (0 to 1)
    let leftOrRight = data.x;
    // lean forward (0 to -1) / back (0 to 1)
    let forwardOrBack = data.y;
    // do stuff
});
```

**GITHUB.COM
EDDYVERBRUGGEN
NATIVESCRIPT-PLUGINSHOWCASE**







2XR.NE./FC2019

DYKE
BARDY!
EKIUE



#FrontendCon 2019 - @rowdyrabouw