





UNLEASH YOUR
WEB SKILLS
ON NATIVE!



SINGLE RIDERS

ENTRANCE

**WEB DEVELOPER
MOOD COASTER**

**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





DAD

ROWDY RABOUW

@rowdyrabouw

Gouda, The Netherlands

I ❤ superhero movies

Freelance web and app developer

Lead developer Nationale-Nederlanden Pension App

Progress Developer Expert for Nativescript



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
- Beta

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
- Beta

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
- Native code to access APIs
- Version 0.55

MOBILE APP FRAMEWORK DECISION GUIDE

Do you know and like React?

Yes

No

React Native

continue

- React
- Native code to access APIs
- Version 0.55





NATIVE JAVASCRIPT

BN

NATIVESCRIPT

WHAT IS NATIVESCRIPT?

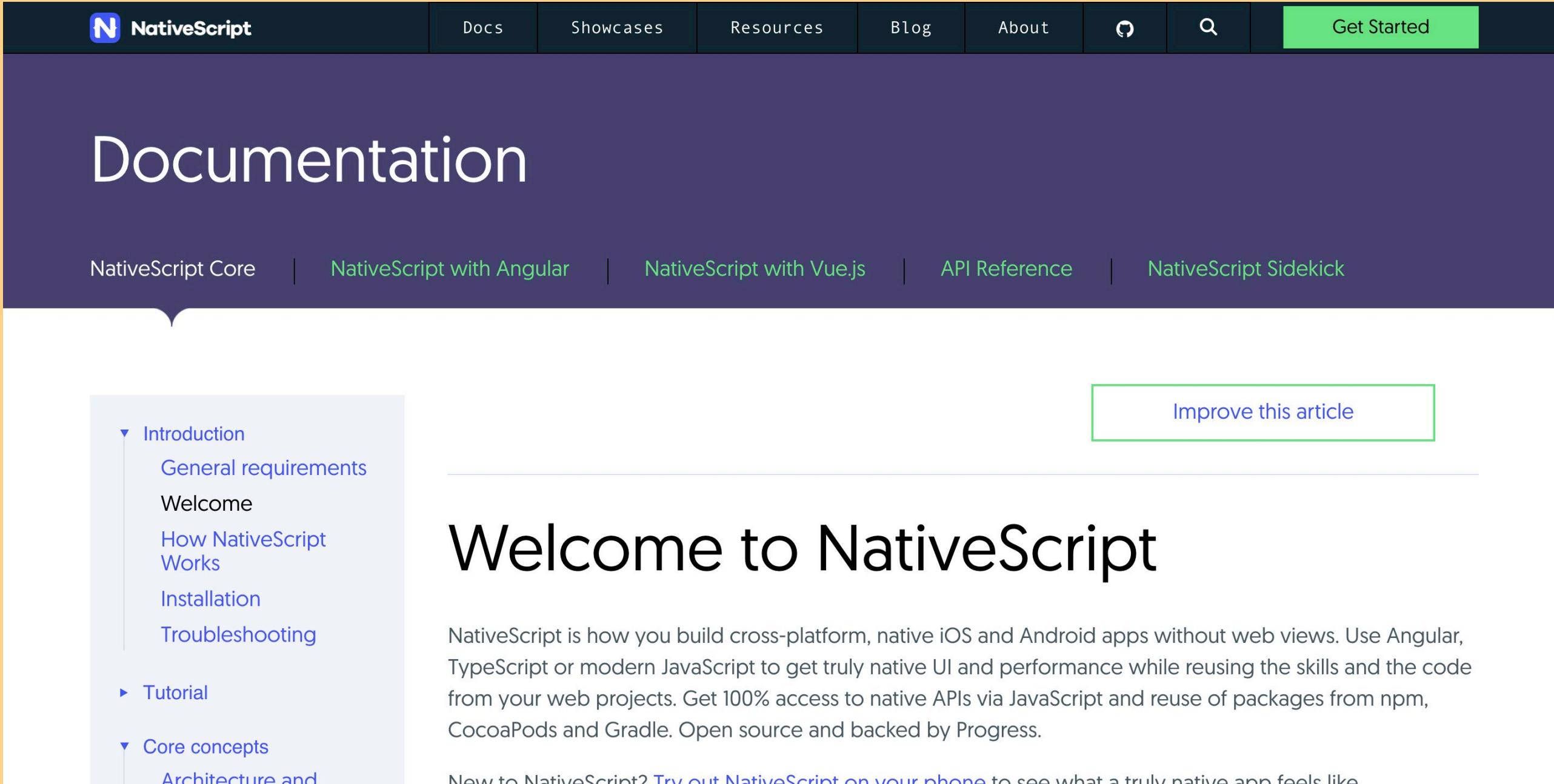
- Open source framework for building truly native mobile apps
- JavaScript, markup (XML/HTML) and CSS
- Native code inside your JavaScript if you want and dare
- Cross Platform: one codebase for iOS and Android
- Backed by software company Progress
- Android 4.2 or a later stable official release
- iOS 7.0 or later stable official release





HOW TO START?

DOCS.NATIVESCRIPT.ORG



The screenshot shows the NativeScript documentation homepage. At the top is a dark header bar with the NativeScript logo and navigation links for Docs, Showcases, Resources, Blog, About, a user icon, a search icon, and a green 'Get Started' button. Below the header is a large dark blue section titled 'Documentation'. Underneath this are five navigation links: NativeScript Core, NativeScript with Angular, NativeScript with Vue.js, API Reference, and NativeScript Sidekick. The main content area features a sidebar on the left with a light gray background containing a tree view of topics: Introduction (General requirements, Welcome, How NativeScript Works, Installation, Troubleshooting), Tutorial, and Core concepts (Architecture and). To the right of the sidebar is a large article area with a white background. The title 'Welcome to NativeScript' is prominently displayed in large black font. Below the title is a paragraph of text explaining what NativeScript is and how it works. A green-bordered button labeled 'Improve this article' is located in the top right corner of the article area. At the very bottom of the page, there is a small note: 'New to NativeScript? Try out NativeScript on your phone to see what a truly native app feels like.'

NativeScript Core | NativeScript with Angular | NativeScript with Vue.js | API Reference | NativeScript Sidekick

Introduction

- General requirements
- Welcome
- How NativeScript Works
- Installation
- Troubleshooting

Tutorial

Core concepts

- Architecture and

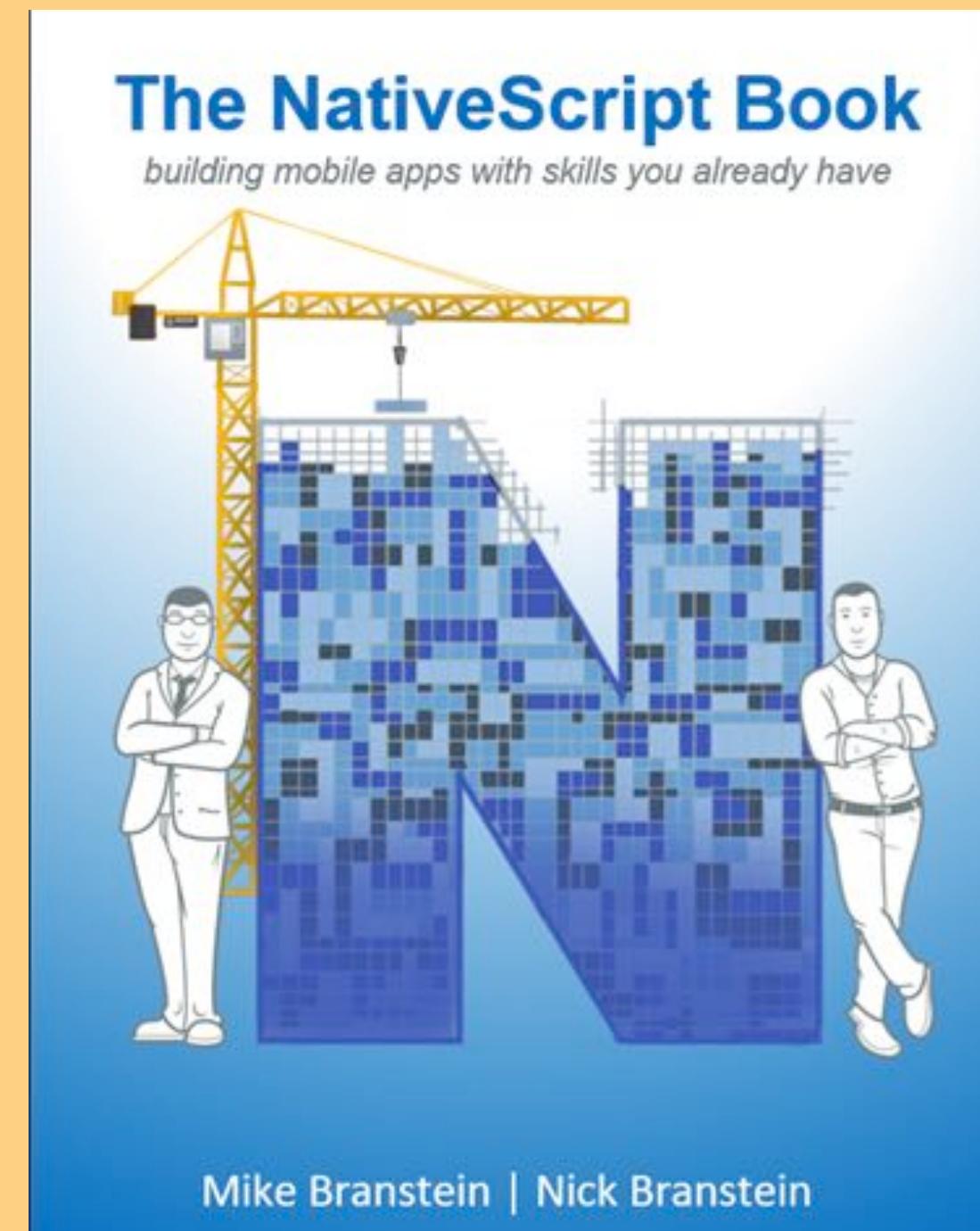
Improve this article

Welcome to NativeScript

NativeScript is how you build cross-platform, native iOS and Android apps without web views. Use Angular, TypeScript or modern JavaScript to get truly native UI and performance while reusing the skills and the code from your web projects. Get 100% access to native APIs via JavaScript and reuse of packages from npm, CocoaPods and Gradle. Open source and backed by Progress.

New to NativeScript? Try out NativeScript on your phone to see what a truly native app feels like.

NATIVESCRIPT.ORG/GET-THE-NATIVESCRIPT-BOOK



FORUM.NATIVESCRIPT.ORG

 NativeScript

[Sign Up](#) [Log In](#)  

[all categories ▾](#) [Latest](#) [Top](#) [Categories](#)

Topic	Category	Users	Replies	Views	Activity
<p> Please update Sidekick to the latest version I'd like to notify you about an upcoming change in Sidekick. To grow the Sidekick cloud infrastructure, we are breaking the API compatibility with old Sidekick clients. How does this affect you? You will need to update ... read more</p>	 Sidekick		1	33	2d
<p>  Earn NativeScript Forum Rewards  To thank those of you who put your time and energy into answering questions on the forum, we are kicking off the NativeScript Forum Rewards program! You may read the announcement blog post, but the tl;dr; is: Did some... read more</p>	 Announcements	 DSG	8	2.0k	13d
<p> Welcome to the NativeScript Community Forum! The NativeScript community forum is a resource for community interaction around the NativeScript framework. Learn more about NativeScript at http://www.nativescript.org. We have a code of conduct, please read it before... read more</p>			1	1.5k	Nov '17
How to create a new Component which is added to a StackLayout?	 Angular		0	2	33m
<input checked="" type="checkbox"/> frameModule.topmost() in The NativeScript Book (using v4.0.0)	 Getting Started		2	11	3h
Sidedrawer in Vue	 Vue.js		0	4	4h
TextField positive integer format / filter			1	6	4h
Create http request with WebWorker <small>nativescriptcore</small>	 Angular		1	13	7h
<input checked="" type="checkbox"/> Video picker delegate doesn't fire method <small>ios</small>	 iOS		2	14	7h
<input checked="" type="checkbox"/> Access to LocationManager in Android	 Android		2	28	9h

NATIVESCRIPTCOMMUNITY.SLACK.COM

The screenshot shows the Slack interface for the **#general** channel of the **Nativescript Community**. The sidebar on the left lists various channels and direct messages. The main pane displays a conversation between users **Yilmaz**, **IFTTT APP**, **Bassie**, **Milad**, **mast3rd3mon**, and **Cepheus** about displaying local notifications in a NativeScript application with Angular. A link to a Stack Overflow question is shared. The conversation continues with Milad reporting an error and mast3rd3mon suggesting a command. Cepheus responds with a template message.

#general

Thanks,
Michael

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/2HTtjje>

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

+ Message #general

NATIVESCRIPT.ORG/NATIVESCRIPT-SIDEKICK

Create App

App Name *

Project Folder *
 [Browse...](#)

Automatically set App ID

⚠ This value should match the App ID of your iOS provisioning profile [Need help?](#)

Project Type
 JS NativeScript + JavaScript
 TS NativeScript + TypeScript
 A NativeScript + Angular & TypeScript

Blank  Blank template for NativeScript apps using Angular

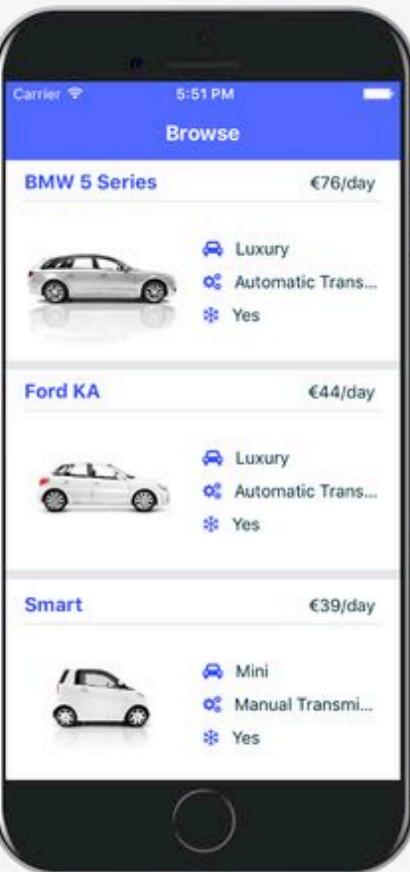
Navigation Drawer  Side navigation template

Tabs  Tabbed interface template

Master-Detail with Firebase  Master-detail interface to display collection of items from Firebase and inspect and edit selected item properties.

Master-Detail with Kinvey  Master-detail interface to display collection of items from Kinvey and inspect and edit selected item properties.

iOS Android



[Create App](#)

PLAY.NATIVESCRIPT.ORG

The screenshot shows the NativeScript Playground interface at <https://play.nativescript.org>. The top navigation bar includes links for New, QR Code, Share, Download, and Preview. The left sidebar features an Explorer panel with project files like app-routing.module.ts, app.component.html, app.component.ts, app.css, app.module.ts, home-routing.module.ts, home.component.css, home.component.html (selected), home.component.ts, home.module.ts, and main.ts. Below the Explorer is a Components panel listing Button, Image, Label, Switch, and Slider. The main workspace displays the code for home.component.html:

```
1 <ActionBar title="Home" class="action-bar">
2 </ActionBar>
3
4 <ScrollView class="page">
5   <StackLayout class="home-panel">
6     <!--Add your page content here-->
7     <Label textWrap="true" text="Play with NativeScript!" class="h2 description-label"></Label>
8     <Label textWrap="true" text="Write code in the editor or drag and drop components to build a NativeScript mobile application." class="h2 description-label"></Label>
9     <Label textWrap="true" text="Scan the QR code with your mobile device and watch the changes sync live while you play with the code." class="h2 description-label"></Label>
10    </StackLayout>
11  </ScrollView>
```

The right side shows a mobile device preview window titled "Home" with the text "Play with NativeScript! Write code in the editor or drag and drop components to build a NativeScript mobile application. Scan the QR code with your mobile device and watch the changes sync live while you play with the code." Below the preview is a note: "Scan the QR code with your mobile device and watch the changes sync live while you play with the code."

NATIVESCRIPTING.COM

The screenshot shows the homepage of [Nativescripting.com](https://nativescripting.com). The header features a large blue navigation bar with the "NativeScripting" logo on the left, and "Training", "About", and "Login" links on the right. Below the header, a dark blue section contains the text "Turn up your NativeScript training". It encourages users to start learning NativeScript with free guides for Core and with Angular. It also mentions NativeScript Pro courses and bundles, noting a pre-launch price. A call-to-action button at the bottom urges users to "Grab them while we have them." The main content area below has a teal header with "NativeScript Core" and a white header with "NativeScript with Angular". The main body features three course cards: "NativeScript Plugins: Creating Custom View Components" by Nathan Walker (NEW), "NativeScript Core Getting Started Guide" by Alex Ziskind (FREE COURSE, NEW), and "NativeScript Core Pro" by Alex Ziskind (PRESALE).

NativeScripting

Training About Login

Turn up your NativeScript training

Are you ready to start learning NativeScript? Get the FREE getting started guides for NativeScript Core and NativeScript with Angular.

Do you already know the basics and want to go deeper? Our NativeScript Pro courses will take you to a finished and polished product that you can launch in the app stores. Courses can be purchased on-demand, or save money with our bundles! Only 100 of each bundle are made available for the special pre-launch price. Grab them while we have them.

NativeScript Core

NativeScript with Angular

Courses for the NativeScript Core minded folks. MVVM, TypeScript, and no other UI frameworks.

NativeScript Plugins: Creating Custom View Components
Nathan Walker
NEW

NativeScript Core Getting Started Guide
Alex Ziskind
FREE COURSE

NativeScript Core Pro
Alex Ziskind
PRESALE

LEARN MORE

FREE COURSE

LEARN MORE



**MARVEL
LAKE 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_.keyboardtype

```
<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="" />
```

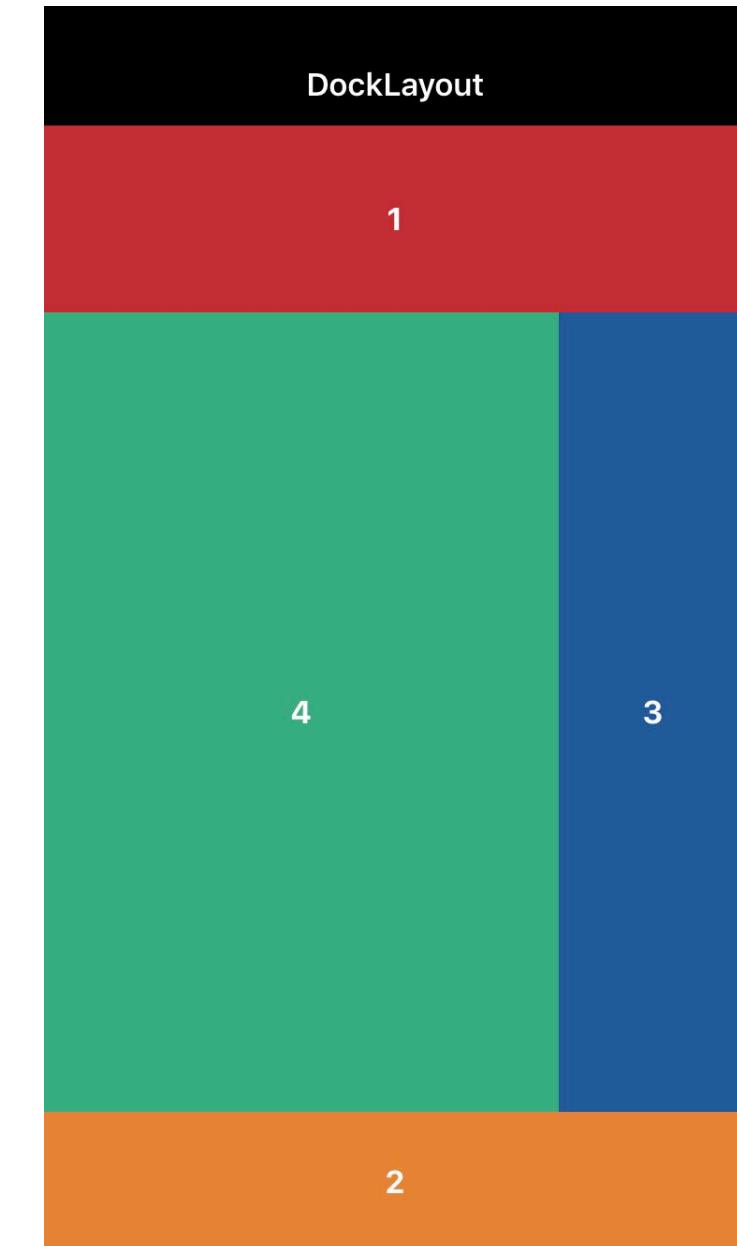
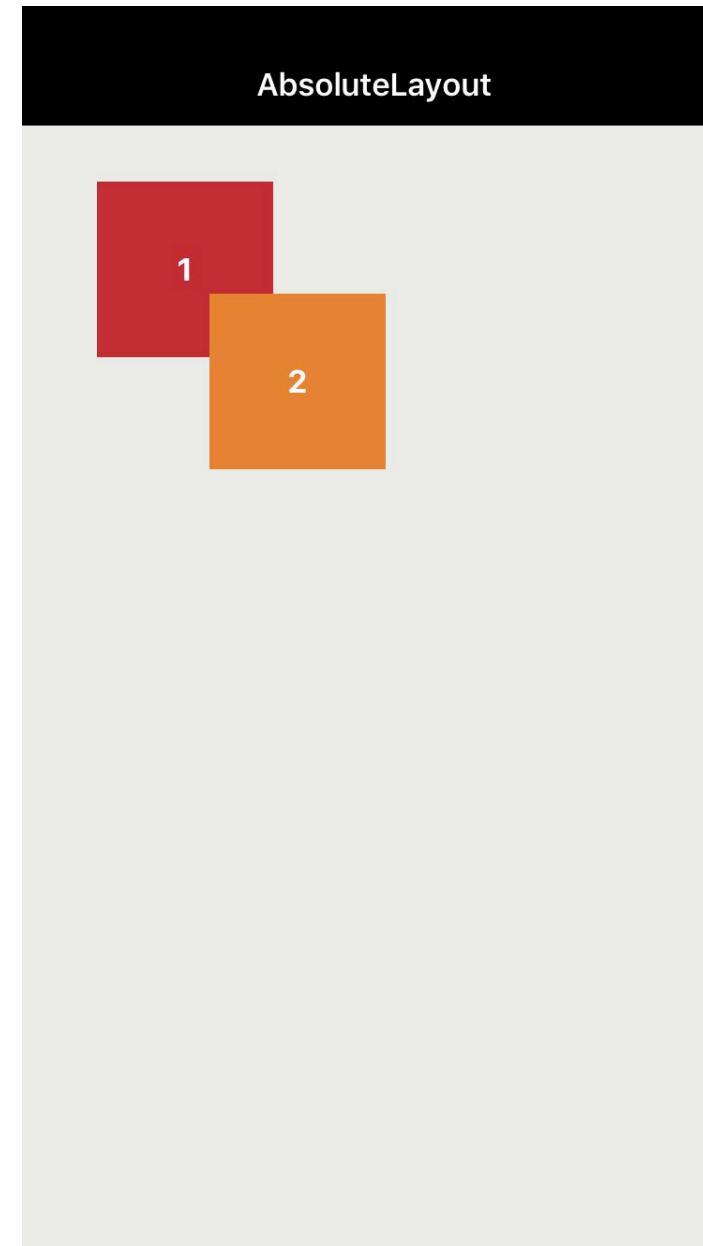
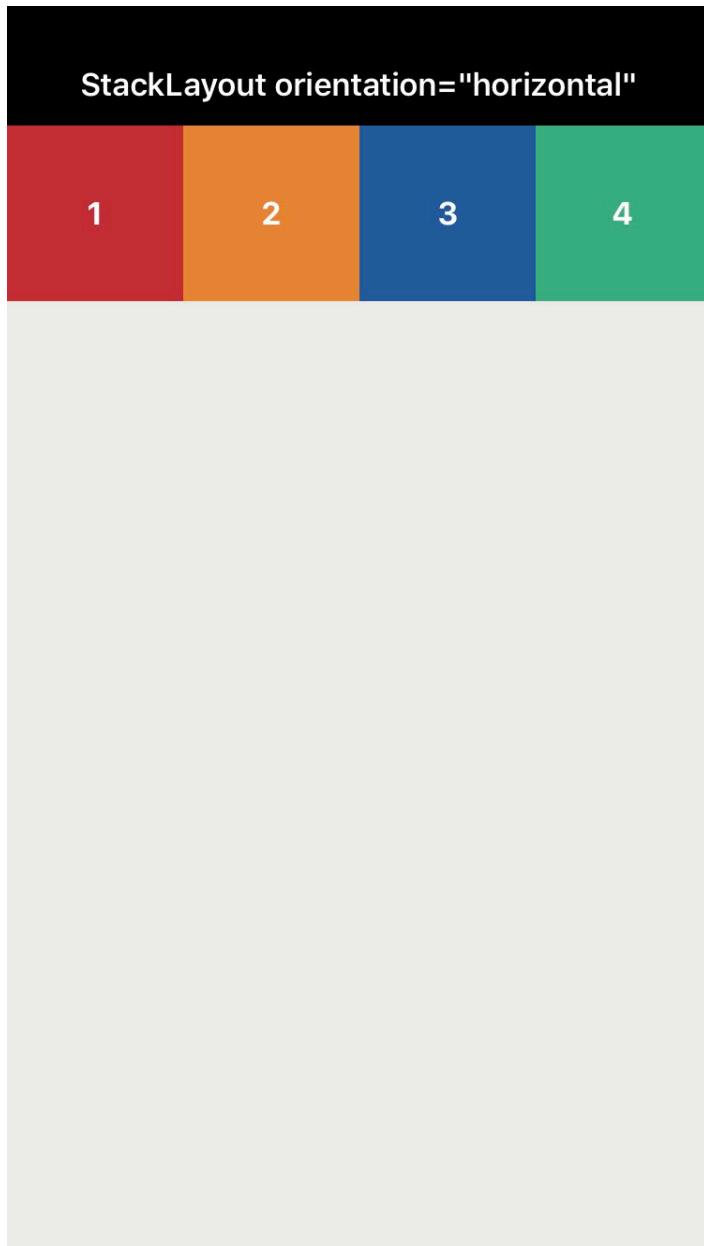
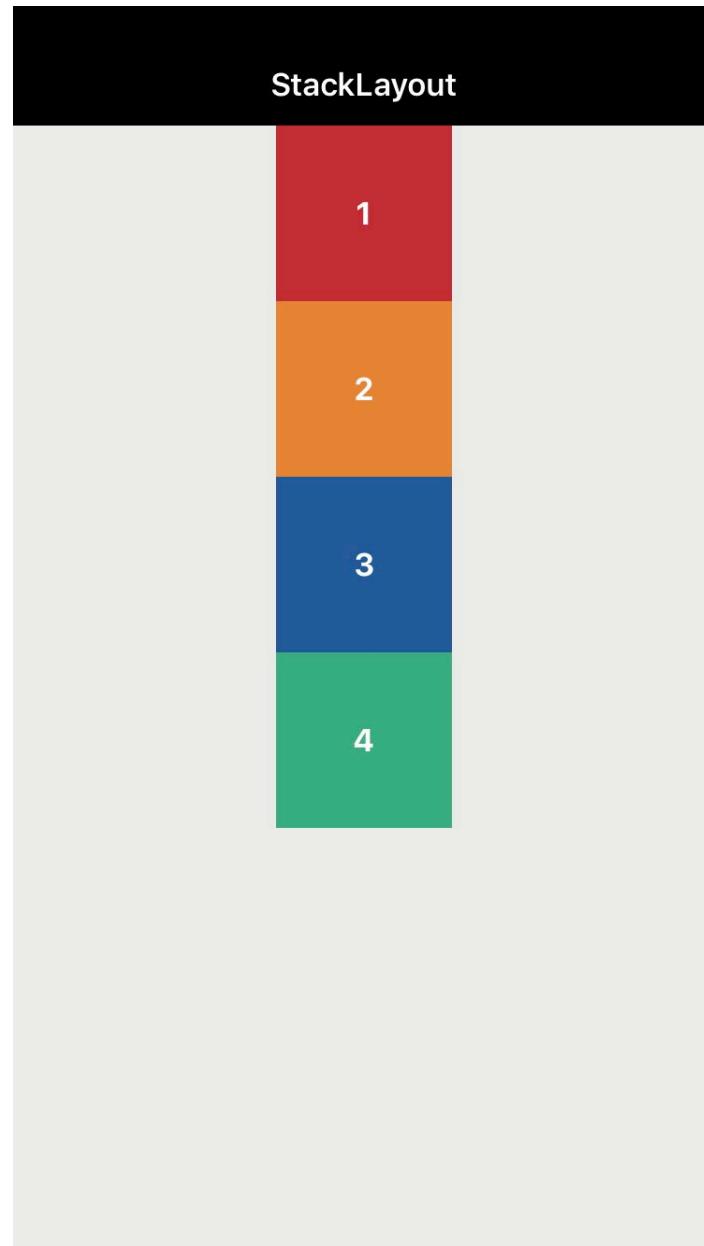
```
<TextField visibility="" />
```

```
<TextField width="" />
```

```
<TextField maxLength="" />
```

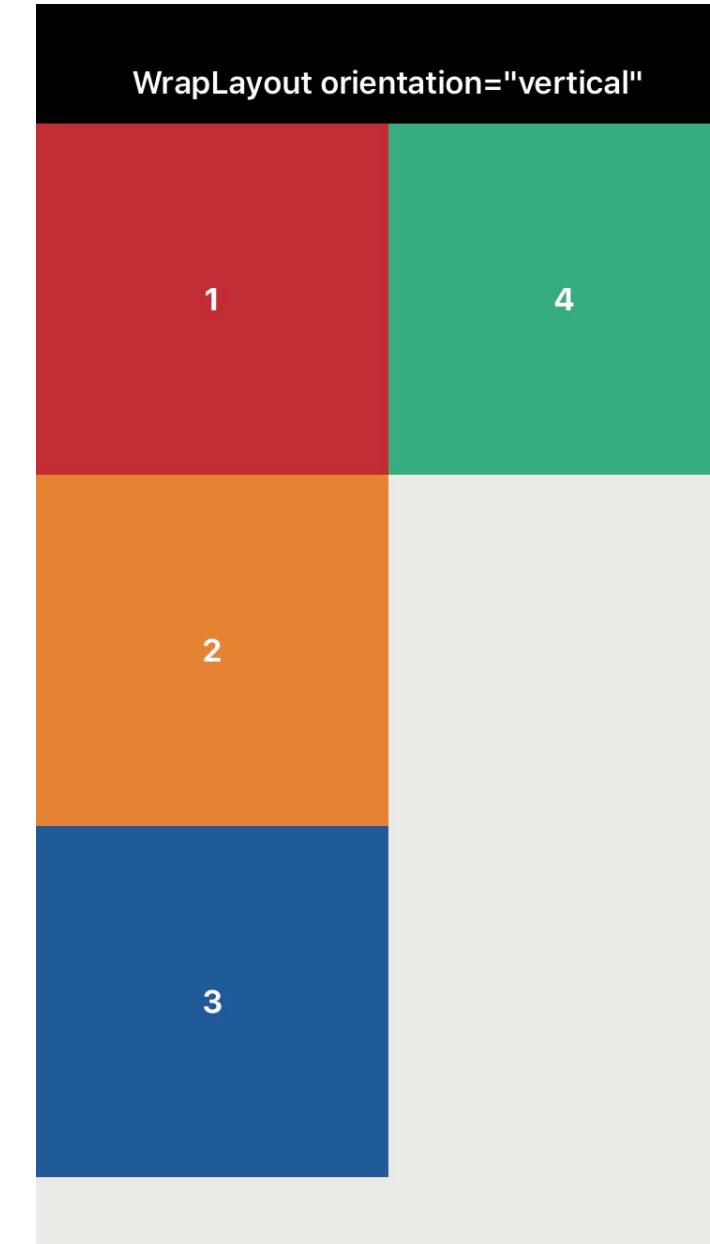
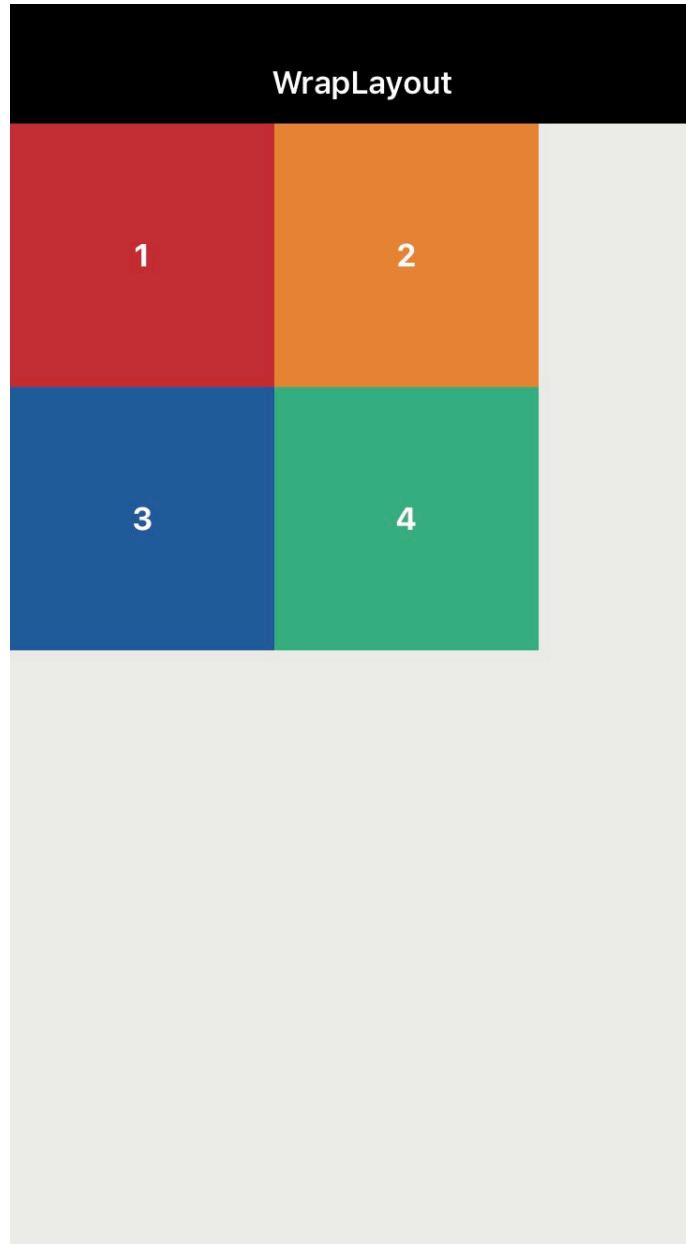
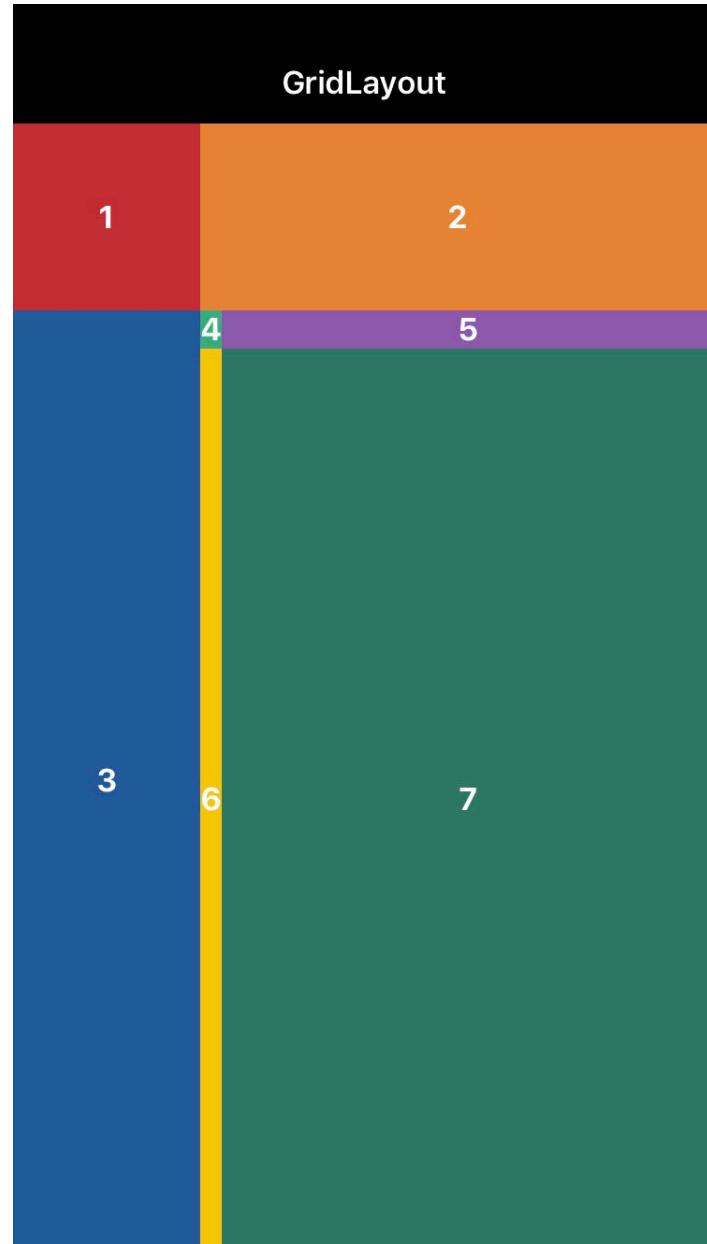
AYOUTS

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



AYOUTS

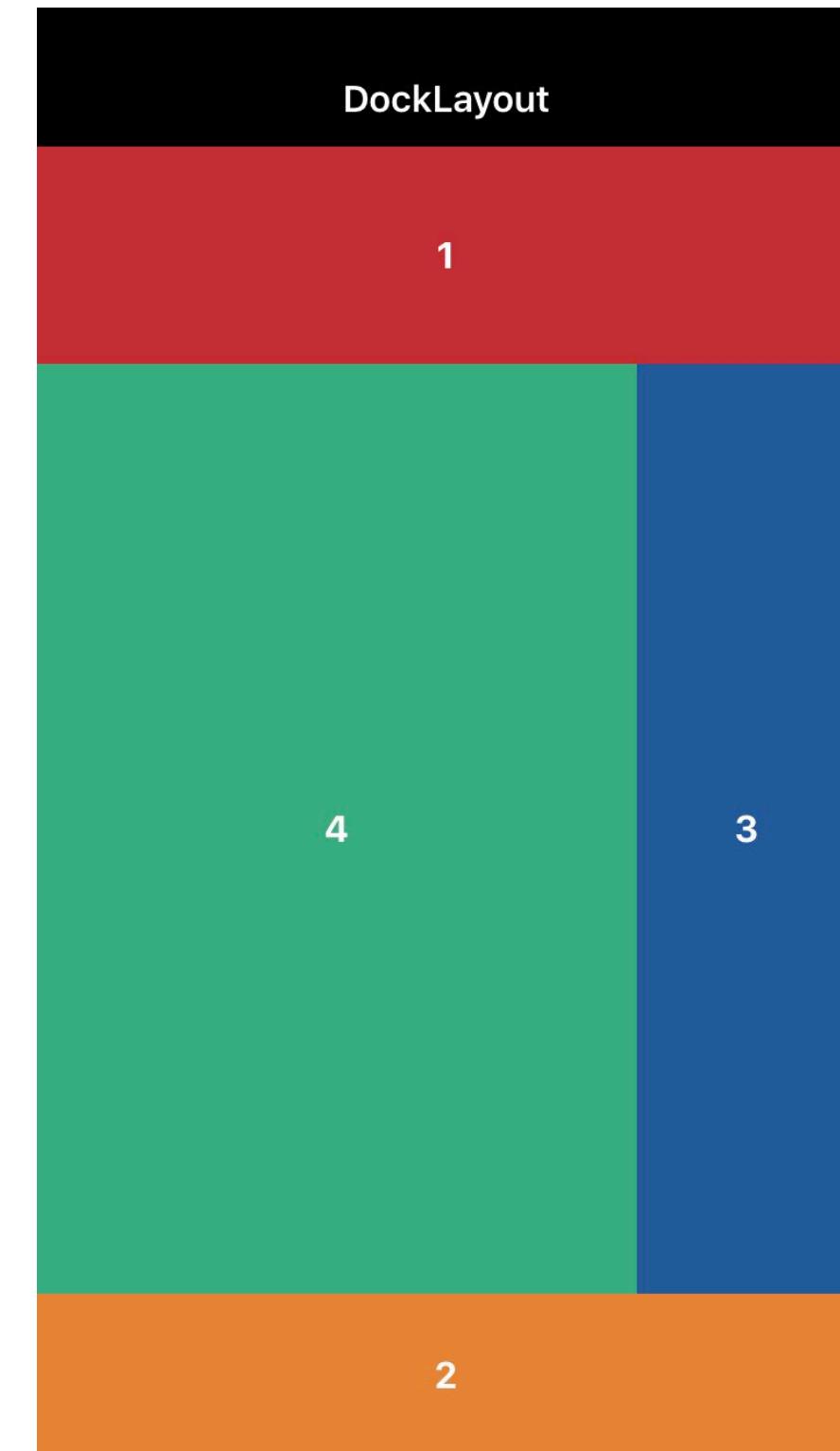
<https://docs.nativescript.org/ui/layouts>



DOCKLAYOUT

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

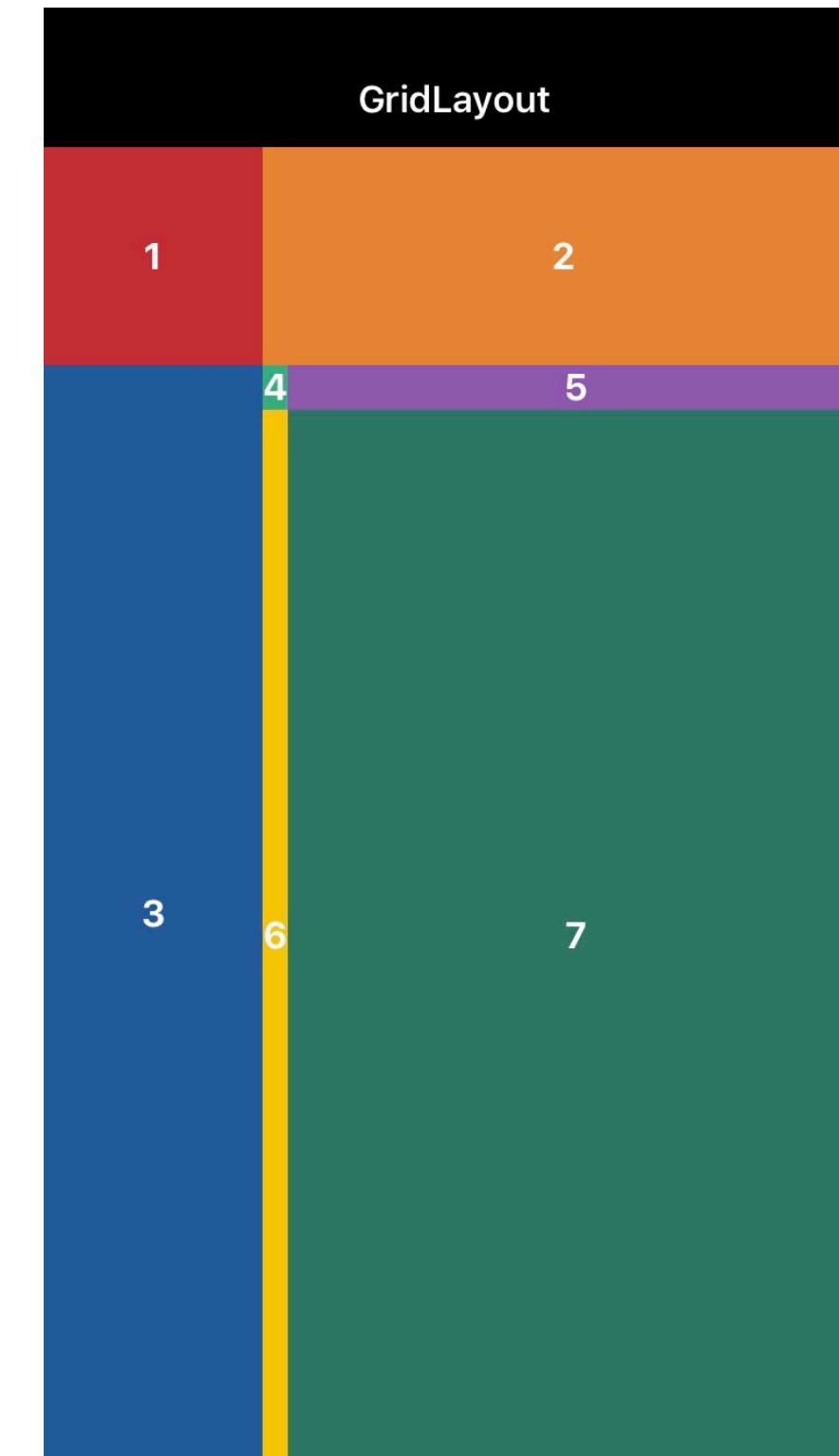
```
<DockLayout height="100%"  
stretchLastChild="true">  
  
    <Label text="1" dock="top"/>  
    <Label text="2" dock="bottom"/>  
    <Label text="3" dock="right"/>  
    <Label text="4" dock="left"/>  
  
</DockLayout>  
  
<!--  
    1 + 2 have fixed height  
    3 has fixed width  
    4 will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



CASCADING STYLE SHEETS

CASCADING STYLE SHEETS

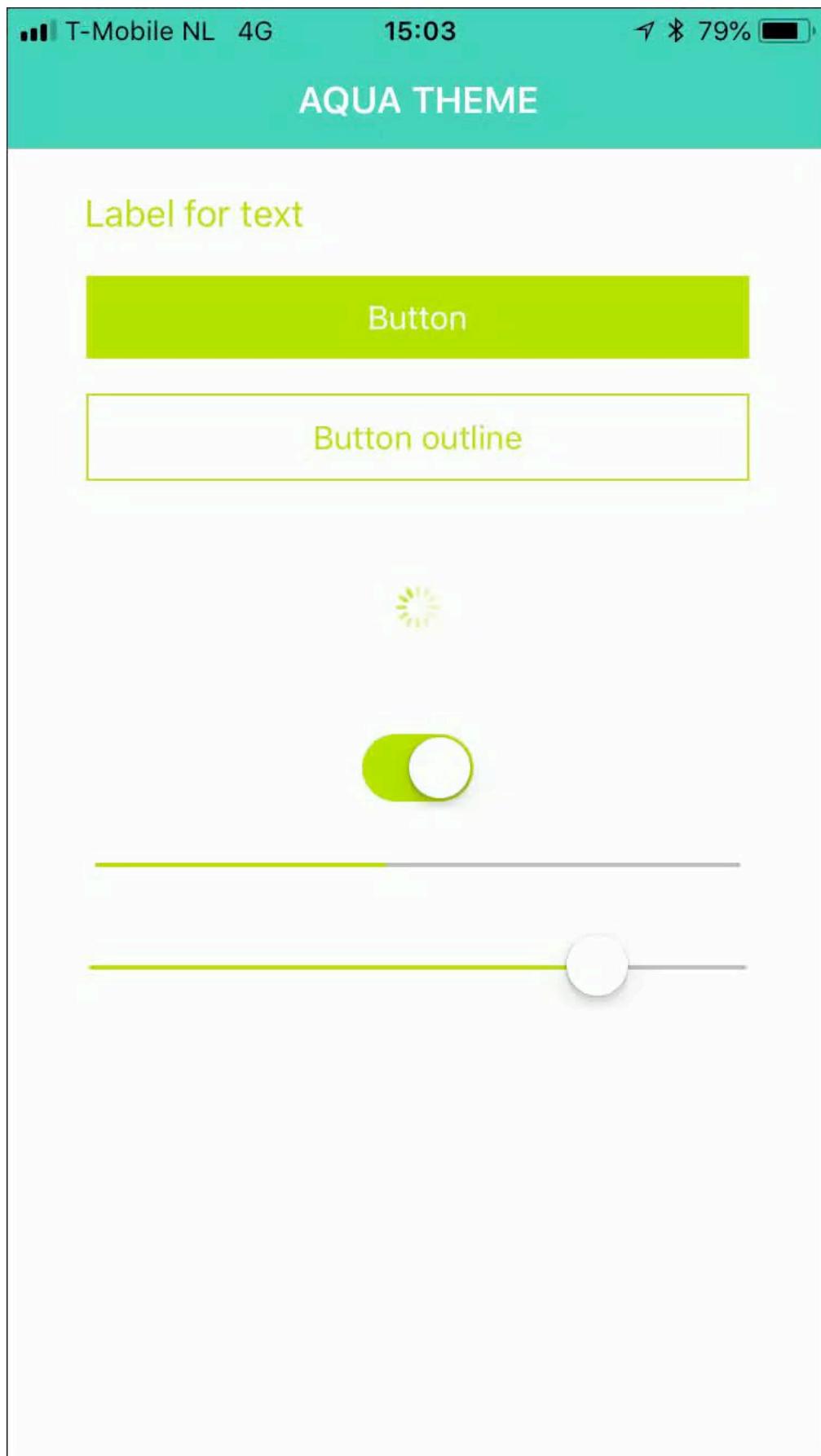
<https://docs.nativescript.org/ui/styling>

- 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

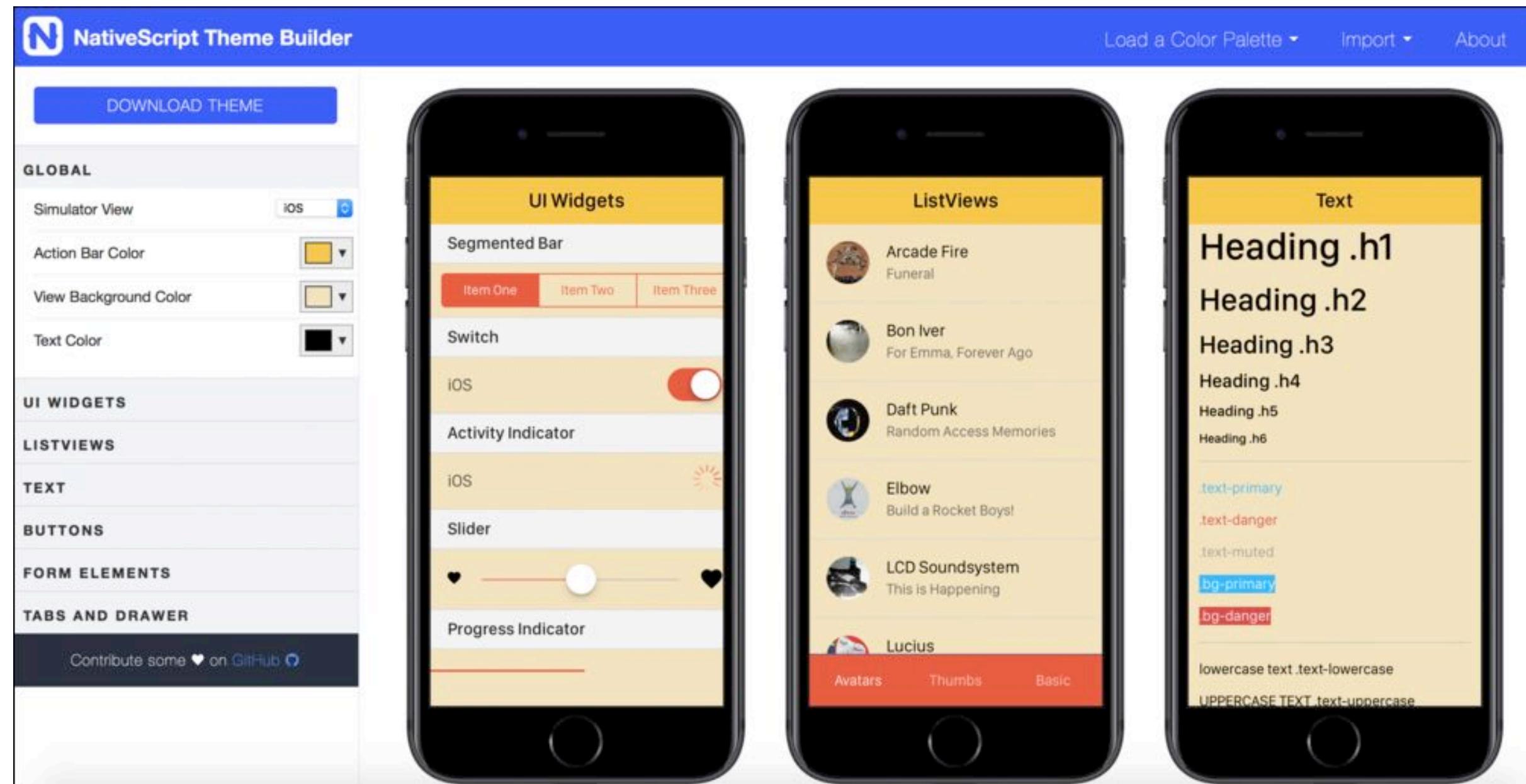
<https://docs.nativescript.org/ui/theme>

- **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

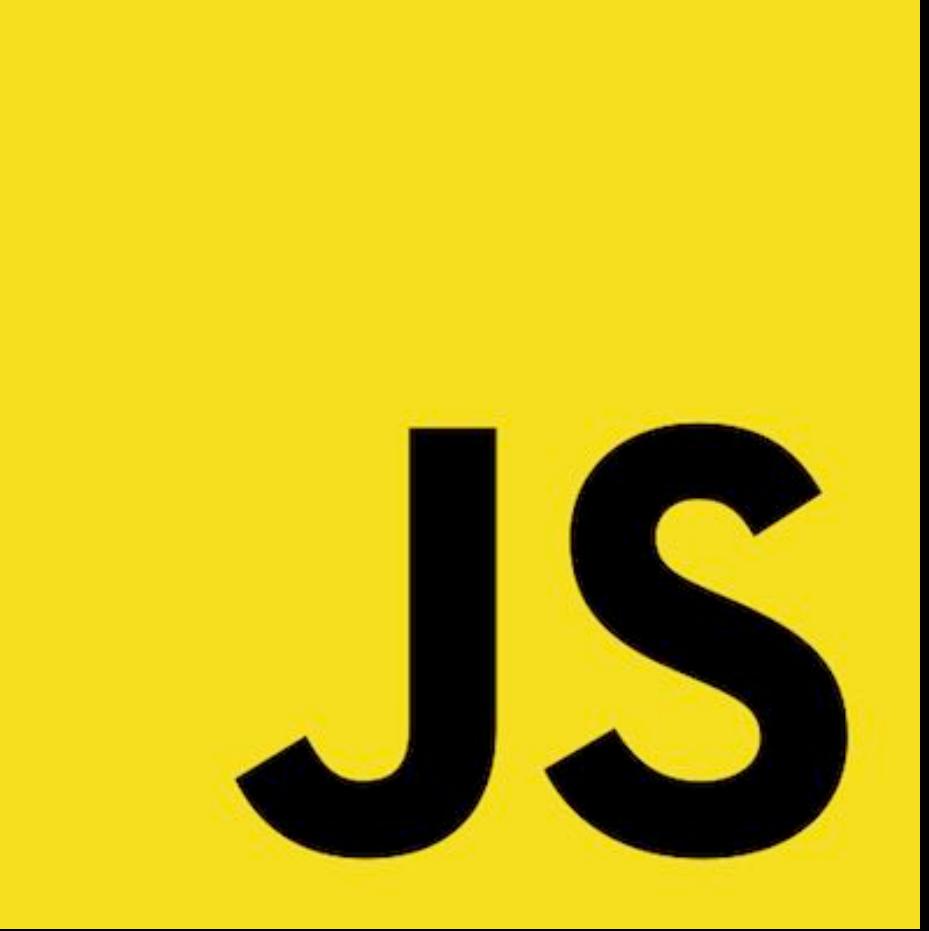
Harley Quinn

Hulk

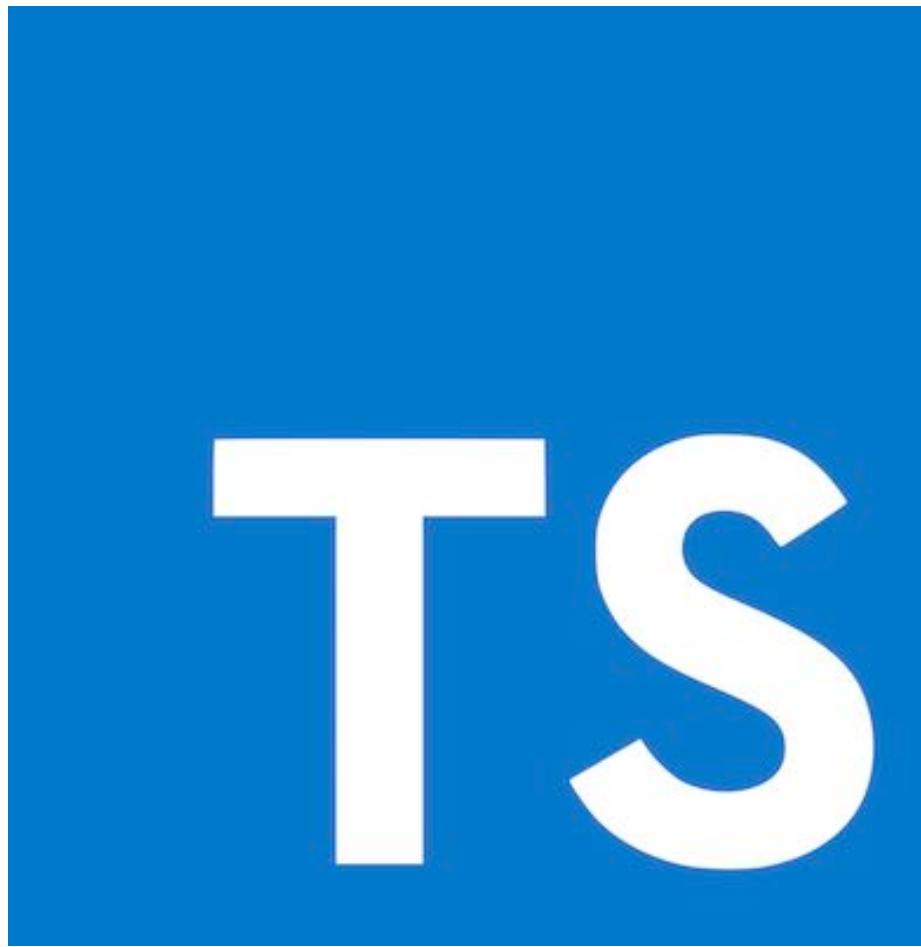


4 FANTASTIC CHOICES





JAVASCRIPT



TYPESCRIPT



vue.js



ANGULAR



Damaged

NATIVE GOOD

Damaged

{N} ANGULAR DIRECTORY STRUCTURE

app/components/slider/

 slider.component.html

 slider.component.ts

 slider.component.css

 slider-routing.module.ts

 slider.module.ts

SLIDER.COMPONENT.HTML

```
<ActionBar title="Slider"></ActionBar>

<StackLayout>
    <Slider value="70"></Slider>
</StackLayout>
```

SLIDER.COMPONENT.TS

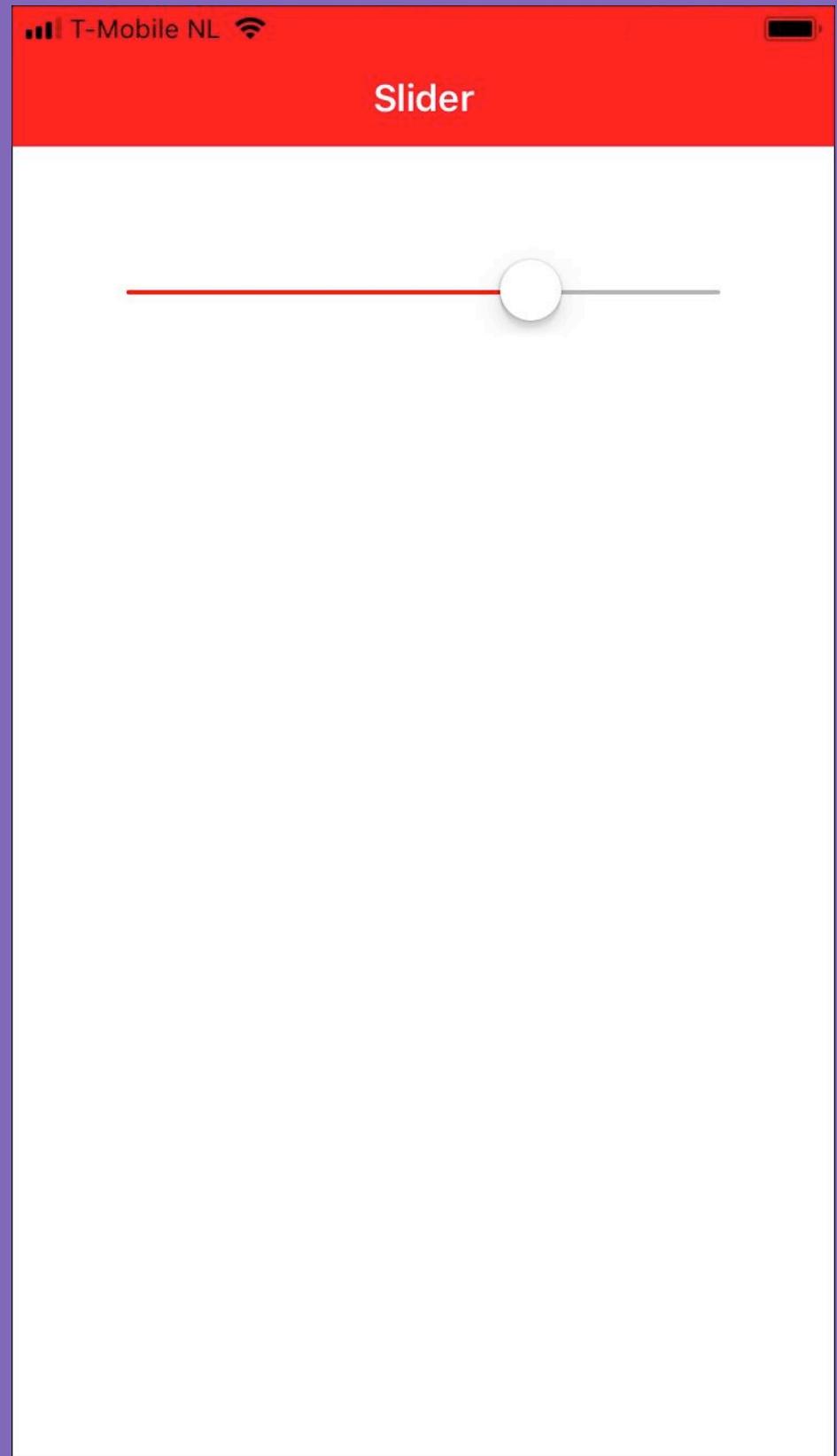
```
import { Component } from "@angular/core";  
  
@Component({  
  selector: "app-slider",  
  moduleId: module.id,  
  templateUrl: "slider.component.html",  
  styleUrls: ["slider.component.css"]  
})  
export class SliderComponent {  
  constructor() {}  
}
```

SLIDER.COMPONENT.CSS

```
ActionBar {  
    color: white;  
    background-color: red;  
}
```

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

```
Slider {  
    background-color: red;  
}
```



SLIDER.COMPONENT.HTML

```
<ActionBar title="Slider"></ActionBar>

<StackLayout>
    <Slider slider-icon value="70"></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) {
      let 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) {
      let 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) {
      let 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 {}
```







A collage of various scenes from the movie Guardians of the Galaxy Vol. 2. It includes a close-up of Rocket Raccoon's face, Star-Lord Peter Quill looking surprised, Gamora in her green suit, Drax the Destroyer, Groot, and several other characters like Nebula and Mantis. The background features the interior of a futuristic space station with glowing orange lights and complex machinery.

PACKAGINGS 8 LIBRARIES

NODE PACKAGE MANAGER

- commonly known as npm
- ready to use JavaScript modules
- about 650.000 packages of free, reusable code
- `npm install packagename --save`
- `package.json`

NODE PACKAGE MANAGER

CRYPTO-JS

Cryptography standards (AES-256)

ACCOUNTING.JS

Number, money and currency formatting

EMAIL-VALIDATOR

Email syntax validator

ANDROID ARSENAL

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

COCOAPODS

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





MULTILINGUAL
NEXTTRANSLATE

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

```
{  
  "HOME": {  
    "TITLE": "Hello JSConf Belgium!",  
    "TEXT": "It's great to introduce NativeScript to you.",  
    "SLIDER": "Slider",  
    "ENGLISH": "English",  
    "FOREIGN": "Dutch",  
    "MIP": "WowWee MiP",  
    "MACHINE_LEARNING": "Machine Learning",  
    "SPEECH_RECOGNITION": "Speech Recognition"  
  }  
}
```

MULTILINGUAL: NGX-TRANSLATE

```
<ActionBar  
  [title]="'HOME.TITLE' | translate">  
</ActionBar>
```

```
<Button  
  [text]="'HOME.ENGLISH' | translate"  
  (tap)="changeLanguage('en')">  
</Button>
```

[] = one way data binding in Angular

| = display-value transformations

Hello JSConf Belgium!

It's great to introduce
NativeScript to you.

Slider

English

Dutch

WowWee MiP

Machine Learning

Speech Recognition



**NATIVE JAVASCRIPT
PLUGINS**

market.nativescript.org

Verified vs. unverified plugins. Want to know the difference? X

NativeScript | Marketplace NativeScript.org

FEATURED

 Discover high quality plugins, templates and tools for your NativeScript app

< >

Search for plugins

 VERIFIED	Image Picker by NativeScript Team Version 3.0.6 A plugin for the NativeScript framework implementing multiple image picker	 VERIFIED	Fingerprint Auth by Eddy Verbruggen Version 4.0.1 A fingerprint authentication plugin for use in NativeScript apps
 VERIFIED	Facebook by NativeScript Team Version 2.0.1 NativeScript plugin, wrapper of native Facebook SDK for Adroid and iOS.	 VERIFIED	Pro UI by Progress Version 3.1.2 Progress NativeScript Pro UI is a suite of rich user interface components based on the native iOS and Android implementations.
	Plugin Firebase by Telerik / Eddy Verbruggen Version 4.1.1 Fire. Base. Firebase!		Google Maps SDK by Dan Prietti Version 2.3.2 Google Maps SDK plugin for Nativescript
	Permissions by Nathanael Anderson Version 1.2.3 A NativeScript plugin to deal with Android permissions		Unit Test Runner by Telerik Version 0.3.4 NativeScript unit test runner component.

NATIVESCRIPT CLI

```
npm install nativescript -g
```

NATIVESCRIPT CLI

```
tns create <app-name>
```

```
tns create <app-name> --tsc
```

```
tns create <app-name> --ng
```

```
vue init nativescript-vue/vue-cli-template <app-name>
```

```
tns create <app-name> --template <template-url>
```

NATIVESCRIPT CLI

```
tns platform add ios
```

```
tns platform add android
```

```
tns build ios
```

```
tns build android
```

```
tns run ios
```

```
tns run android
```

NATIVESCRIPT CLI

```
tns plugin add <plugin-name>
```



**3RD PUGGINS
LIVEADIMMO**



NATIVESCRIPT PLUGINS

- **nativescript-bluetooth**
- **nativescript-camera**
- **nativescript-social-share**
- **nativescript-speech-recognition**
- **nativescript-texttospeech**
- **nativescript-videoplayer**

NATIVESCRIPT-BLUETOOTH

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

bluetooth.isBluetoothEnabled()
  .then(function(enabled) {
    alert("Enabled? " + enabled);
  });
}
```

NATIVESCRIPT-BLUETOOTH

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

NATIVESCRIPT-CAMERA

```
import * as camera from "nativescript-camera";
import { ImageSource } from "tns-core-modules/image-source";

camera.requestPermissions();

camera.takePicture({
    width: 1000,
    height: 1000
})
.then(imageAsset => {
    new ImageSource().fromAsset(imageAsset).then(imageSource => {
        // do something with the image
    });
});
});
```

NATIVESCRIPT-SOCIAL-SHARE

```
import * as camera from "nativescript-camera";
import { ImageSource } from "tns-core-modules/image-source";
import * as SocialShare from "nativescript-social-share";

camera.requestPermissions();

camera.takePicture({
    width: 1000,
    height: 1000
})
.then(imageAsset => {
    new ImageSource().fromAsset(imageAsset).then(imageSource => {
        SocialShare.shareImage(imageSource);
    });
});
});
```

NATIVESCRIPT-SPEECH-RECOGNITION

```
import { SpeechRecognition, SpeechRecognitionTranscription }  
  from "nativescript-speech-recognition";  
  
private speechRecognition = new SpeechRecognition();  
  
this.speechRecognition.available().then(  
  (available: boolean) => console.log(available ? "YES!" : "NO"),  
  (err: string) => console.log(err)  
);  
  
this.speechRecognition.requestPermission().then((granted: boolean) => {  
  console.log("Granted? " + granted);  
});
```

NATIVE JAVASCRIPT - SPEECH RECOGNITION

```
this.speechRecognition.startListening({
  locale: "en-US",
  returnPartialResults: true,
  onResult: (transcription: SpeechRecognitionTranscription) => {
    console.log(`User said: ${transcription.text}`);
  }
});

this.speechRecognition.stopListening().then(() => {
  // do something with the recognized text
});
```

NATIVESCRIPT-TEXTTOSPEECH

```
import { TNSTextToSpeech, SpeakOptions }  
  from "nativescript-texttospeech";  
  
let textToSpeech = new TNSTextToSpeech();  
let speakOptions: SpeakOptions = {  
  text: "Hello world!",  
  locale: "en-GB",  
  speakRate: 0.5,  
  pitch: 0.8  
};  
  
textToSpeech.speak(speakOptions);
```

NATIVESCRIPT-VIDEOPLAYER

```
<VideoPlayer  
  src="video.mp4"  
  controls="true"  
  loop="true"  
  autoplay="false">  
</VideoPlayer>
```

WANT TO
SOCKS!





MERCIERKES!

2XR.NL/USCONFBE

LINKS

Native elements playground: <http://2xr.nl/markup>

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

TabView playground: <http://2xr.nl/TabView>

Plugin demo app: <http://2xr.nl/JSCConfBE2018code>