

 免費電子書

學習

nativescript

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#nativescrip

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1: nativescript

NativescriptWebJShtmliOSAndroid。

- AndroidUI Jankfps
- API
- UI
- TypescriptAngular 2
- Telerik

Examples

Nativescript。

WindowsOSX。

IDE。

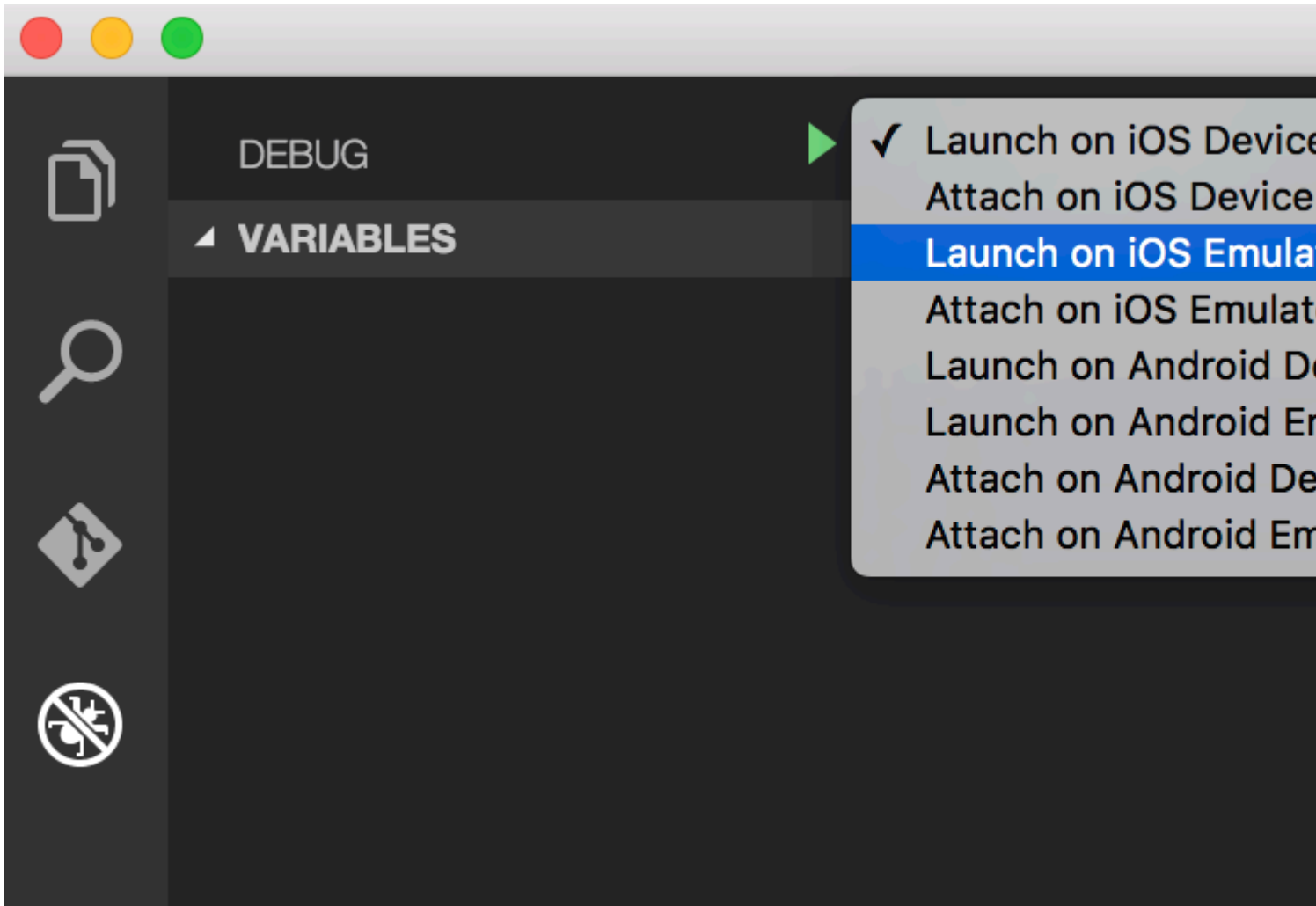
1. Node.js LTS。 [Homebrew](#) brew install node4-lts。
2. npm install -g nativescript。 EACCESsudo npm install -g nativescript。
3. ruby -e "\$(curl -fsSL https://www.nativescript.org/setup/mac)"。
4. tns doctor。
5. 。

1. [nodeJS LTS](#)
2. \$ npm install -g nativescript
3. \$ @powershell -NoProfile -ExecutionPolicy Bypass -Command "iex ((new-object net.webclient).DownloadString('https://www.nativescript.org/setup/win'))" -
4. \$ tns doctor cmd
- 5.

Visual StudioNativeScript

[Visual Studio Code](#)Microsoft。 NativeScript F1 + Shift + P ext install NativeScript。

NativeScript。 ""。



Hello World

```
$ mkdir hello-world
$ cd hello-world
$ tns create hello-world --ng
$ tns platform add android #You can only add ios on an OSX machine
```

◦ genymotionAndroid◦

```
$ tns run android
```

android--emulator◦

```
tns 2.5livesync tns run <platform>◦ ◦
```

WiFi nativescript-androidRoot

1 - USB◦ USB◦ adb devices tns device◦

```

habib@habib: ~
File Edit View Search Terminal Help
habib@habib:~$ tns device
iTunes is not available for this operating system. You will not be able to work
with connected iOS devices.

```

#	Device Name	Platform	Device Identifier	Type	Status
1	kona3gxx	Android	3204a1eccc713141	Device	Connected

2-run adb tcpip 5555

```

habib@habib: ~
File Edit View Search Terminal Help
habib@habib:~$ adb tcpip 5555
restarting in TCP mode port: 5555

```

3 - USB.

4 - -> ->IP.

5-run adb connect <IP address of your device>:5555

```

habib@habib: ~
File Edit View Search Terminal Help
habib@habib:~$ adb connect 192.168.1.5:5555
connected to 192.168.1.5:5555

```

6 - adb devices tns device .

```

habib@habib: ~
File Edit View Search Terminal Help
habib@habib:~$ tns device
iTunes is not available for this operating system. You will not be able to work
with connected iOS devices.

```

#	Device Name	Platform	Device Identifier	Type	Status
1	kona3gxx	Android	192.168.1.5:5555	Device	Connected

7-tns run android tns livesync android.

1 - WiFi13wifi. 46.

2-Androidwifi. .

. Wi-Fi

1-Norman Peitek. WiFiAndroidRoot. [] [https //futurestud.io/blog/how-to-debug-your-android-app-over-wifi-without-root](https://futurestud.io/blog/how-to-debug-your-android-app-over-wifi-without-root) . [201688].

2 usethe4ce。 Wi-Fi//Android [] [http //stackoverflow.com/a/10236938/4146943](http://stackoverflow.com/a/10236938/4146943) 。 [201688]。

[nativescript https://riptutorial.com/zh-TW/nativescript/topic/921/nativescript](https://riptutorial.com/zh-TW/nativescript/topic/921/nativescript)

2:

Examples

ng2-TNS-AndroidsurfaceView

ng2-nativescriptsurfaceView ◦ nativescriptsurfaceView placeholder ◦

```
import {Component} from "@angular/core";
import placeholder = require("ui/placeholder");
let application= require("application");
```

html

```
<Placeholder (creatingView)="creatingView($event)"></Placeholder>
```

```
public creatingView(args: any) {
    var nativeView = new android.view.SurfaceView(application.android.currentContext);
    args.view = nativeView;
}
```

typescriptandroid ◦

ng2-nativescript

```
<Placeholder *ngIf="init" (creatingView)="creatingView($event)"></Placeholder>
```

OnInit

```
import {Component,OnInit} from "@angular/core";
```

OnInit

```
export class AppComponent implements OnInit
```

```
public init: boolean = false;
ngOnInit() {
    this.init = true;
}
```

nativescriptsurfaceView :)

SurfaceView

getHolder()

```
<Placeholder #surface *ngIf="init" (creatingView)="creatingView($event)"
```

```
(loaded)="onLoaded(surface)"></Placeholder>
```

onLoaded

```
onLoaded(element) {  
  let mSurface = element.android;  
  let holder = mSurface.getHolder();  
}
```

android element.android ngAfterViewInitloaded°

ng2-TNS-AndroidsurfaceView

app.component.ts

```
import {Component,OnInit} from "@angular/core";  
import placeholder = require("ui/placeholder");  
let application= require("application");  
  
@Component({  
  selector: "my-app",  
  templateUrl: "app.component.html",  
})  
export class AppComponent implements OnInit{  
  
  public creatingView(args: any) {  
    var nativeView = new android.view.SurfaceView(application.android.currentContext);  
    args.view = nativeView;  
  }  
  
  onLoaded(element) {  
    let mSurface = element.android;  
    let holder = mSurface.getHolder();  
  }  
  
  public init: boolean = false;  
  ngOnInit() {  
    this.init = true;  
  }  
}
```

app.component.html

```
<StackLayout>  
  <Placeholder #surface *ngIf="init" (creatingView)="creatingView($event)"  
  (loaded)="onLoaded(surface)"></Placeholder>  
</StackLayout>
```

<https://riptutorial.com/zh-TW/nativescript/topic/5834/>

3:

Examples

NativeScript`console`◦ `console.log()`

```
console.log("hello world");
```

`console.dump()` `trace()` `assert()` ◦

```
// Prints the state of a full object.
console.dump({ firstName: "Native", lastName: "Script"});

// Prints the current stack trace
console.trace();

// Asserts a boolean condition, and prints to the console if the assertion fails.
console.assert(1 === 1, "This won't print as the condition is true");
console.assert(1 === 2, "This will print as the condition is false");
```

JavaScript

NativeScript`timer`◦

```
var timer = require("timer")
```

```
var callback = function(){
    console.log("I will be executed once after 500ms");
}
var timeoutId = timer.setTimeout(callback, 500);

// clearing the timeout
timer.clearTimeout(timeoutId);
```

```
var callback = function(){
    console.log("I will be executed every 500 ms")
}
var intervalId = timer.setInterval(callback, 500);

// clearing the interval
timer.clearInterval(intervalId);
```

<https://riptutorial.com/zh-TW/nativescript/topic/3133/>

4: Nativescript

Examples

StackLayout

stacklayout

/main.component.ts

```
import {Component, ElementRef, ViewChild} from "@angular/core";
import {Color} from "color";
import {View} from "ui/core/view";

@Component({
  selector: "main",
  template: `
    <StackLayout #el>
      <Button text="Apply Changes" (tap)="changeBgColor()"></Button>
    </StackLayout>
  `,
  styleUrls: ["pages/main/main-common.css"],
})

export class MainComponent {
  @ViewChild("el") el: ElementRef;
  changeBgColor() {
    let el = <View>this.el.nativeElement;
    el.animate({
      backgroundColor: new Color("#222"),
      duration: 300
    });
  }
}
```

/common.css

```
StackLayout{
  background-color: #333;
}
```

o

/main.component.ts

```
import {Component, ElementRef, ViewChild} from "@angular/core";
import {View} from "ui/core/view";
import {AnimationCurve} from "ui/enums";

@Component({
  selector: "main",
  template: `
```

```

        <StackLayout>
            <Image #img src="~/assets/images/user-shape.png"></Image>
            <Button text="Apply Changes" (tap)="animateImage()"></Button>
        </StackLayout>
    },
    styleUrls: ["pages/main/main-common.css"],
})

export class MainComponent {
    @ViewChild("img") img: ElementRef;
    animateImage() {
        let img = <View>this.img.nativeElement;
        img.animate({
            translate: { x: 0, y: 120 },
            duration: 2000,
            curve: AnimationCurve.easeIn
        });
    }
}

```

#snippet

cubicBezier

1. cubicBezier

```

img.animate({
    translate: { x: 0, y: 120 },
    duration: 2000,
    curve: AnimationCurve.cubicBezier(0.1, 0.2, 0.1, 1)
});

```

2.

```

img.animate({
    opacity: 0,
    duration: 2000
});

```

```

img.animate({
    translate: { x: 120, y: 0},
    duration: 2000
});

```

```

img.animate({
    scale: { x: 1.5, y: 1.5},
    duration: 2000
});

```

```
img.animate({
  rotate: 270,
  duration: 2000
});
```

Nativescript <https://riptutorial.com/zh-TW/nativescript/topic/5970/nativescript>

5:

chrome v8ES7。 "use strict";。 typescripttypescript。 self.functionNameglobal.functionName。

Examples

2

/app/services/greeting.service.ts

```
import { Injectable } from '@angular/core';
import {greetingTypes,request,response}
    from './greeting.interface'

@Injectable()
export class Greeting{

    private worker;
    constructor(){
        this.worker = new Worker('../workers      /greeting.worker');
    }

    sayHello(message:string, answerCallback:Function){
        let requestData:request =
            {'type':greetingTypes.HELLO , 'message':message} ;

        this.worker.postMessage(requestData);
        this.worker.onmessage = (msg)=>{
            let response:response = msg.data;

            if(response.type == greetingTypes.HELLO){
                answerCallback(response.answer)
            }
        }
    }

    sayBye(message:string, answerCallback:Function){
        let requestData:request =      {'type':greetingTypes.BYE , 'message':message};

        this.worker.postMessage(requestData);
        this.worker.onmessage = (msg)=>{
            let response:response = msg.data;

            if(response.type == greetingTypes.BYE)
                answerCallback(response.answer)
        }
    }
}
```

app/services/greeting.interface.ts

```
export enum greetingTypes{
    BYE,
    HELLO
}
```

```

}

export interface request{
  type:greetingTypes,
  message:string
}

export interface response{
  type:greetingTypes,
  answer:string
}

```

app/workers/greeting.worker.ts

```

require("globals");
import {greetingTypes,request,response} from
  '../services/greeting.interface';

self.onmessage = (msg)=> {
  let request:request = msg.data;
  let responseData:response;
  if(request.type == greetingTypes.HELLO)
    console.log('worker got the message: ' +
      request.message);
    responseData = {'type':greetingTypes.HELLO,
      'answer': 'HELLO!'};
    global.postMessage(responseData);

  if(request.type == greetingTypes.BYE )
    console.log('worker got the message: ' +request.message);
    responseData = {'type':greetingTypes.BYE ,
      'answer':'goodBye!'};
    global.postMessage(responseData);

};

```

app/app.component.ts

```

import {Component} from "@angular/core";
import {Greeting} from '../services/greeting.service';
@Component({
  selector: "my-app",
  templateUrl: "app.component.html",
  providers:[Greeting]
})
export class AppComponent {

  constructor(private greeting:Greeting){}

  public tapHello() {

    this.greeting.sayHello('hi',
      (answer)=>{console.log('answer from worker : '+ answer)});
  }

  public tapBye() {
    this.greeting.sayBye('bye',

```



```
(answer) => {console.log('answer from worker : ' + answer)};
}
```

```
}
```

app/app.component.html

```
<StackLayout>
  <Button text="sayBye" (tap)="tapBye()"></Button>
  <Button text="sayHello" (tap) = "tapHello()"></Button>
</StackLayout>
```

<https://riptutorial.com/zh-TW/nativescript/topic/7878/>

6:

Examples

NativescriptView.OnLayoutChangeListener

```
let playerLayoutChangeListener = new android.view.View.OnLayoutChangeListener( {
    onLayoutChange : function ( v:View, left:number, top:number, right:number,
bottom:number, oldLeft:number, oldTop:number, oldRight:number, oldBottom:number):any {
        if (left != oldLeft || top != oldTop || right != oldRight || bottom != oldBottom) {
            console.log("OnLayoutChangeListener");
            __this.changeSurfaceLayout();
        }
    }
});
```

surfaceView <http://stackoverflow.com/documentation/proposed/changes/79536>

```
surfaceView.addOnLayoutChangeListener(playerLayoutChangeListener);
```

```
surfaceView.removeOnLayoutChangeListener(playerLayoutChangeListener);
```

<https://riptutorial.com/zh-TW/nativescript/topic/5560/>

7: RepeaterListView* ngFor for {N} + Angular-2 apps

{N} + Angular-2 Repeater * ngRepeat Angular-2. ListView* ngFor.

Examples

RepeaterNativeScript Core

page.xml

```
<Page xmlns="http://schemas.nativescript.org/tns.xsd" navigatingTo="navigatingTo">
  <Repeater items="{{ myItems }}">
    <Repeater.itemTemplate>
      <Label text="{{ title || 'Downloading...' }}" textWrap="true" />
    </Repeater.itemTemplate>
  </Repeater>
</Page>
```

page.ts

```
import {EventData, Observable} from "data/observable";
import {Page} from "ui/page";

let viewModel = new Observable();
var myItems = [
  {title: "Core Concepts"},
  {title: "User Interface"},
  {title: "Plugins"},
  {title: "Cookbook"},
  {title: "Tutorials"}
];

export function navigatingTo(args: EventData) {
  var page = <Page>args.object;

  viewModel.set("myItems", myItems);

  page.bindingContext = viewModel;
}
```

ObservableArrayRepeaterNativeScript Core

page.xml

```
<Page xmlns="http://schemas.nativescript.org/tns.xsd" navigatingTo="navigatingTo">
  <Repeater items="{{ myItems }}">
    <Repeater.itemTemplate>
      <Label text="{{ title || 'Downloading...' }}" textWrap="true" class="title" />
    </Repeater.itemTemplate>
  </Repeater>
</Page>
```

page.ts

```
import { EventData, Observable } from "data/observable";
import { ObservableArray } from "data/observable-array";
import { Page } from "ui/page";

let viewModel = new Observable();
let myItems = new ObservableArray({title: "Core Concepts"}, {title: "User Interface"}, {title:
"Plugins"}, {title: "Cookbook"}, {title: "Tutorials"});

export function navigatingTo(args: EventData) {

    var page = <Page>args.object;
    viewModel.set("myItems", myItems);

    // The Repeater will be updated automatically when new item is pushed.
    myItems.push({title:"Publishing"});

    page.bindingContext = viewModel;
}
```

ListViewObservableArrayNativeScript Core

page.xml

```
<Page xmlns="http://schemas.nativescript.org/tns.xsd" navigatingTo="navigatingTo">
  <ListView items="{{ myItems }}" itemTap="listViewItemTap">
    <ListView.itemTemplate>
      <Label text="{{ title || 'Downloading...' }}" textWrap="true" class="title" />
    </ListView.itemTemplate>
  </ListView>
</Page>
```

page.ts

```
import { EventData, Observable } from "data/observable";
import { ObservableArray } from "data/observable-array";
import { Page } from "ui/page";
import { ItemEventData } from "ui/list-view";

import frameModule = require("ui/frame");

let viewModel = new Observable();
let myItems = new ObservableArray( {title: "Core Concepts"},
                                   {title: "User Interface"},
                                   {title: "Plugins"},
                                   {title: "Cookbook"},
                                   {title: "Tutorials"} );

export function navigatingTo(args: EventData) {

    var page = <Page>args.object;
    viewModel.set("myItems", myItems);

    // ListView will be updated automatically when new item is pushed.
    myItems.push({title:"Publishing"});
}
```

```

    page.bindingContext = viewModel;
}

export function listViewItemTap(args:ItemEventData) {
    var itemIndex = args.index;

    // example how to navigate details-page & pass the tapped item context
    // frameModule.topmost().navigate({
    //     moduleName: "./details-page",
    //     context: myItems.getItem(itemIndex);
    // });
}

```

ListviewNativeScript + Angular-2

-listview.component.html

```

<ListView [items]="countries" (itemTap)="onItemTap($event)">
  <template let-country="item" let-i="index">
    <StackLayout orientation="horizontal">
      <Label [text]='(i + 1) + "." ' ></Label>
      <Label [text]='country.name'></Label>
    </StackLayout>
  </template>
</ListView>

```

-listview.component.ts

```

import { Component, ChangeDetectionStrategy, Input } from "@angular/core";

class Country {
    constructor(public name: string) { }
}

var europeanCountries = ["Austria", "Belgium", "Bulgaria", "Croatia", "Cyprus", "Czech
Republic",
"Denmark", "Estonia", "Finland", "France", "Germany", "Greece", "Hungary", "Ireland", "Italy",
"Latvia", "Lithuania", "Luxembourg", "Malta", "Netherlands", "Poland", "Portugal", "Romania",
"Slovakia",
"Slovenia", "Spain", "Sweden", "United Kingdom"];

@Component({
    selector: "creating-listview",
    styleUrls:["./creating-listview.component.css"],
    templateUrl: "./creating-listview.component.html",
    changeDetection: ChangeDetectionStrategy.OnPush
})

export class CreatingListViewComponent {
    public countries: Array<Country>;

    constructor() {
        this.countries = [];

        for (var i = 0; i < europeanCountries.length; i++) {
            this.countries.push(new Country(europeanCountries[i]));
        }
    }
}

```

```
public onTap(args) {
    console.log("Item Tapped at cell index: " + args.index);
}
}
```

* ngFor Structural Directive nativeScript + Angular-2

ngfor.component.html

```
<StackLayout>
  <Label *ngFor="let item of items" [text]="item"></Label>
</StackLayout>
```

ngfor.component.ts

```
import { Component } from "@angular/core";

var dataItems = ["data-item 1", "data-item 2", "data-item 3"]

@Component({
  selector: 'ngfor-component',
  styleUrls:["./ngfor.component.css"],
  templateUrl: "./ngfor.component.html",
})

export class NgForComponent {
  public items:Array<string> = [];

  constructor(){
    this.items = dataItems;
  }
}
```

Repeater JavaScript

page.js

```
var context = {
  items: [
    {id: 1, name: "Foo"},
    {id: 2, name: "Bar"},
    {id: 3, name: "Joe"}
  ]
}

exports.loaded = function(args){
  var page = args.object;
  page.bindingContext = context;
}

exports.showEntry = function(args){
  // select the tapped entry without passing an index or anything like that
  var selectedEntry = args.view.bindingContext;
  console.log(selectedEntry.id + " " + selectedEntry.name);
}
```

```
}
```

page.xml

```
<Repeater items="{{ items }}" >  
  <Repeater.itemTemplate>  
    <Label text="{{ name }}" tap="showEntry" />  
  </Repeater.itemTemplate>  
</Repeater>
```

RepeaterListView* ngFor for {N} + Angular-2 apps <https://riptutorial.com/zh-TW/nativescript/topic/5226/-repeater-listview--ngfor-for--n--plus-angular-2-apps->

8: nativescript

Examples

main.component.ts

```
import {Component} from "@angular/core";

@Component({
  selector: "main",
  template: `
    <StackLayout>
      <TextField hint="some text"></TextField>
      <Button text="Click me" class="btn"></Button>
    </StackLayout>
  `,
  styleUrls: ["pages/main/main-common.css", "pages/main/main.css"]
})
export class MainComponent { }
```

1CSS

app.css - ◦

```
StackLayout {
  margin: 10;
  background-color: white;
}
.btn, TextField {
  margin-left: 16;
  margin-right: 16;
}
```

2CSS

platform.android.css - Android◦

```
.btn{
  background-color: #191919;
  color: #fff;
}
```

platform.ios.css - ios◦

```
.btn{
  background-color: #fff;
  color: #191919;
}
```


app.css

```
@import url("~/platform.css");
```

3CSS

pages / main / main.android.css - android。

```
TextField {  
  color: #e1e1e1;  
  font-size: 12;  
}
```

pages / main / main.ios.css - ios。

```
TextField {  
  color: #e3e3e3;  
  font-size: 15;  
}
```

pages / main / main-common.css - 。

```
TextField {  
  padding: 4;  
}
```

nativescript <https://riptutorial.com/zh-TW/nativescript/topic/3872/nativescript>

9:

Examples

/ - android

batterylock ...



```
let frame = require("ui/frame");
```

```
frame.topmost().android.activity.getWindow().  
getDecorView().setSystemUiVisibility(android.view.View.SYSTEM_UI_FLAG_FULLSCREEN);
```

```
frame.topmost().android.activity.getWindow().  
getDecorView().setSystemUiVisibility(android.view.View.SYSTEM_UI_FLAG_VISIBLE );
```

statusBarandroid

APP_Resources/values/styles.xml

```
<item name="android:windowTranslucentStatus">true</item>
```

```
<style name="AppThemeBase" parent="Theme.AppCompat.Light.NoActionBar"> </style>
```

◦

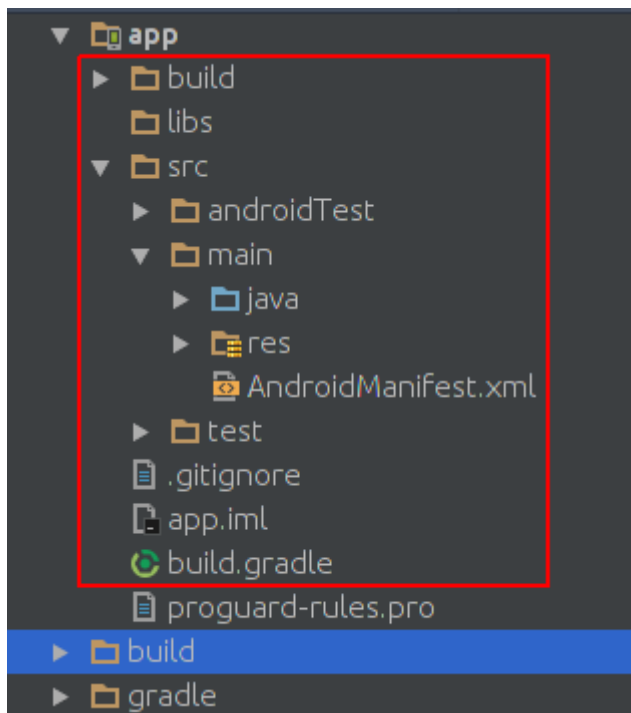
<https://riptutorial.com/zh-TW/nativescript/topic/6007/>

10: api

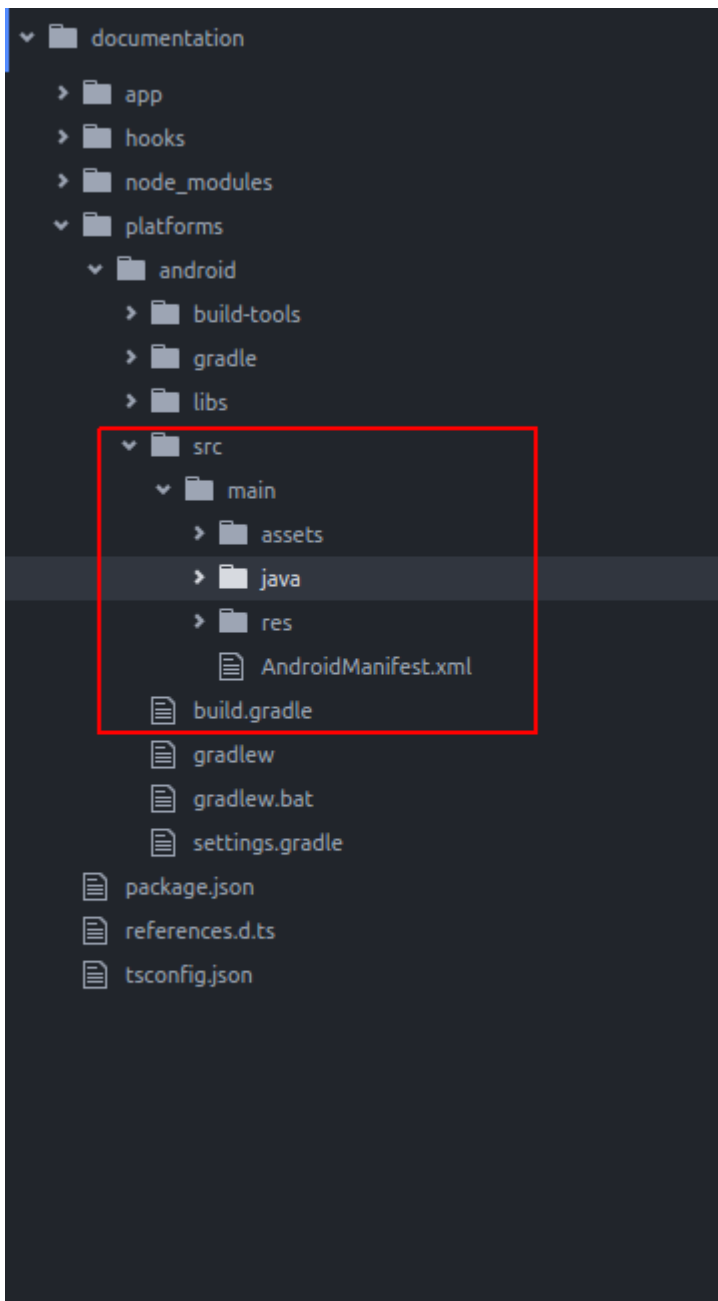
Examples

nativescriptjavajavascript

Android studio

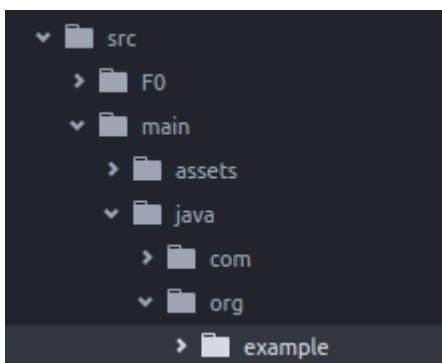


nativescript



◦ android studio nativescriptjava

Toastr nativescript nativescriptjava/org/example



```
exampleMyToast.java;
```

MyToast.java

```
package org.example;

import android.widget.Toast;
import android.content.Context;

public class MyToast{

    public static void showToast(Context context,String text ,String StrDuration ){
        int duration;
        switch (StrDuration){
            case "short":
                duration = Toast.LENGTH_SHORT;
                break;
            case "long":
                duration = Toast.LENGTH_LONG;
                break;
        }
        Toast.makeText(context,text, Toast.LENGTH_SHORT).show();
    }
}
```

;

app.component.ts

```
import {Component} from "@angular/core";
let application = require("application");

declare var org:any;
@Component({
    selector: "my-app",
    templateUrl: "app.component.html",
})
export class AppComponent {
    public counter: number = 16;

    public get message(): string {
        if (this.counter > 0) {
            return this.counter + " taps left";
        } else {
            return "Hoorraay! \nYou are ready to start building!";
        }
    }

    public onTap() {
        this.counter--;
        org.example.MyToast.showToast(application.android.context,"You pressed the
button","short");
    }
}
```

;

1. `showToast` `Toast.makeText application.android.context`
2. `typescript` `org declare var org:any;`

javascriptnative apis

Toastrnativescript

```
import {Component} from "@angular/core";
let application = require("application");

declare var android:any;

@Component({
  selector: "my-app",
  templateUrl: "app.component.html",
})
export class AppComponent {
  public counter: number = 16;

  public get message(): string {
    if (this.counter > 0) {
      return this.counter + " taps left";
    } else {
      return "Hoorraay! \nYou are ready to start building!";
    }
  }

  public onTap() {
    this.counter--;
    this.showToast("You pressed the button","short");
  }

  public showToast(text:string ,StrDuration:string ):void{
    let duration:number;
    switch (StrDuration){
      case "short":
        duration = android.widget.Toast.LENGTH_SHORT;
        break;
      case "long":
        duration = android.widget.Toast.LENGTH_LONG;
        break;
    }
    android.widget.Toast.makeText(application.android.context,text,
    android.widget.Toast.LENGTH_SHORT).show();
  }
}
```

toast Toast.makeText android.widget.Toast Toast.makeText nativescript application.android.context

api <https://riptutorial.com/zh-TW/nativescript/topic/5188/api>

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