

PhoneGap/Cordova

+ Ionic



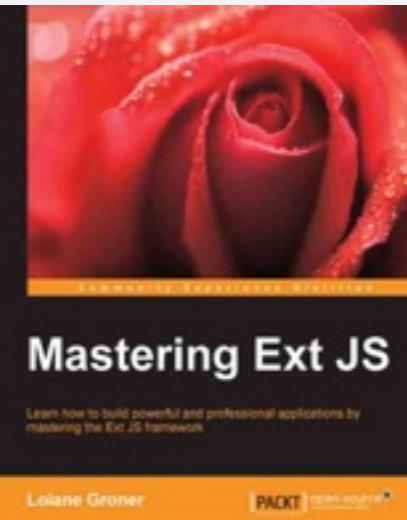
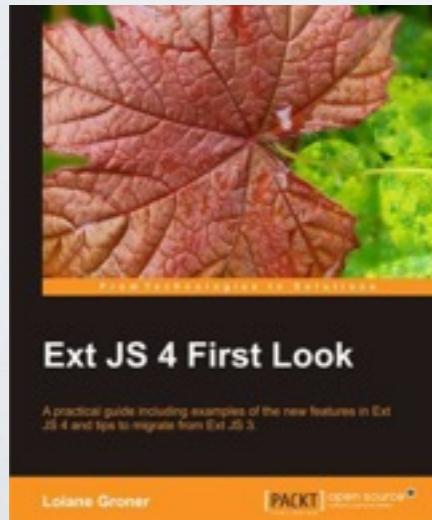
APACHE
CORDOVA™

Loiane Groner
<http://loiane.com>

mobile^{conf}
2015

Loiane Groner

- 9+ XPTI
- Java, Sencha, Phonegap
- <http://loiane.com>
- Livros:



ROADMAP I/3 - INTRO

- I. O que é Phonegap/Cordova?
2. Phonegap x Cordova
3. Como funciona
4. O que instalar / requerimentos
5. Criando um projeto Phonegap/Cordova
6. Testando com Phonegap developer app
7. Testando / emulando localmente

ROADMAP 2/3 - PLUGINS E COMPONENTES

I. Trabalhando com plugins e APIs

2. Trabalhando com views

1. JQuery Mobile

2. Sencha Touch

3. Ionic

3. Criando Views / Componentes

1. Ionic

ROADMAP 3/3 - AVANÇADO (CORS, DEBUG E BUILD)

1. Trabalhando com conexão - servidor: CORS
2. LocalStorage + SQLite
3. REST
4. Ferramentas de Debug
5. Fazendo build localmente/nativo
6. Phonegap Build
7. Enviando para app Stores

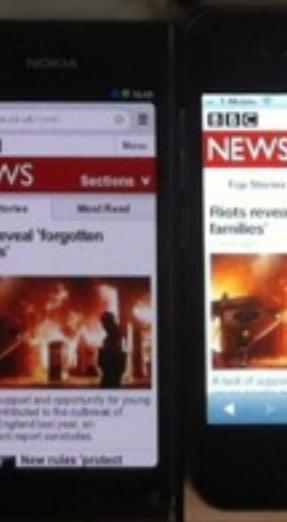
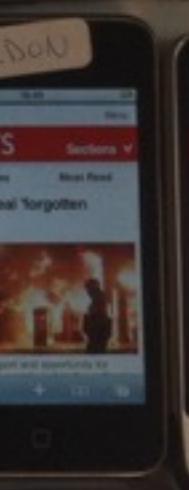
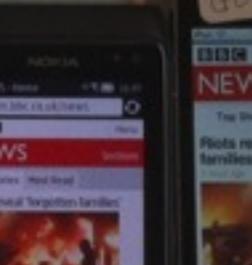
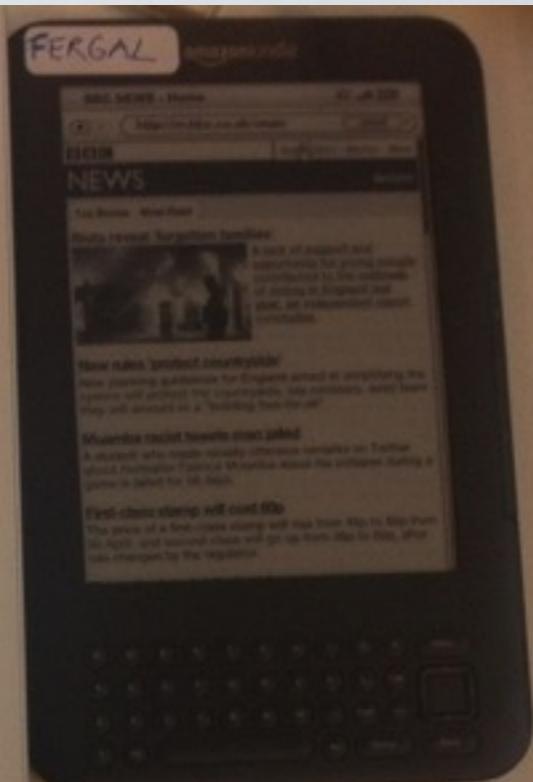
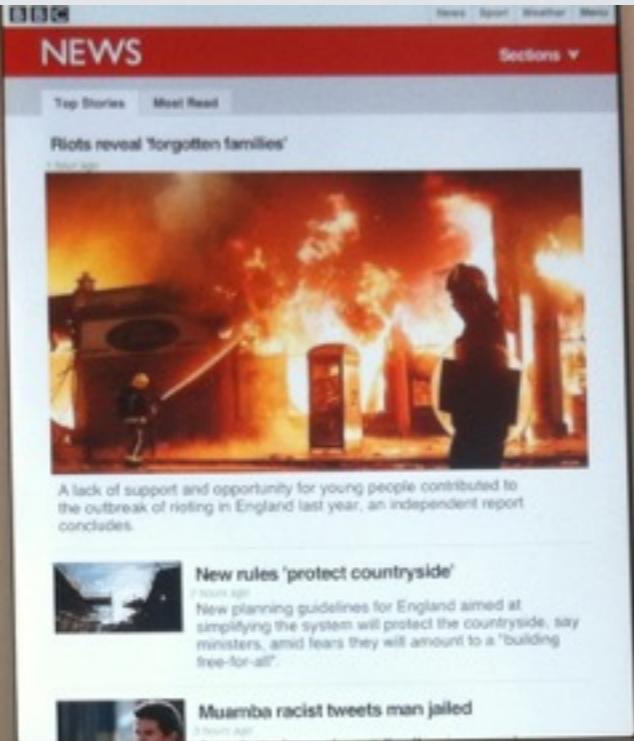
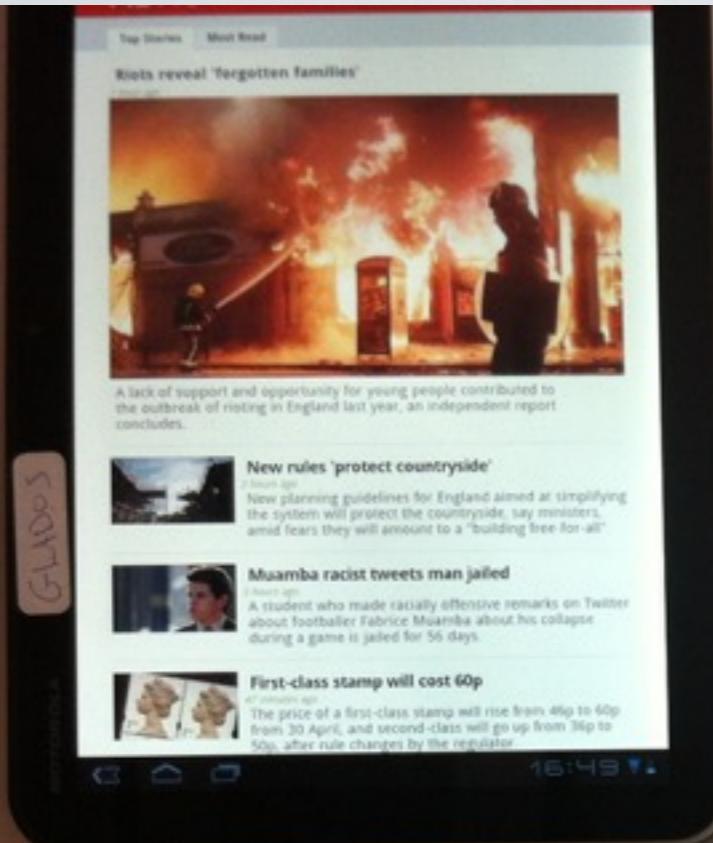
O que é
Phonegap
Cordova?

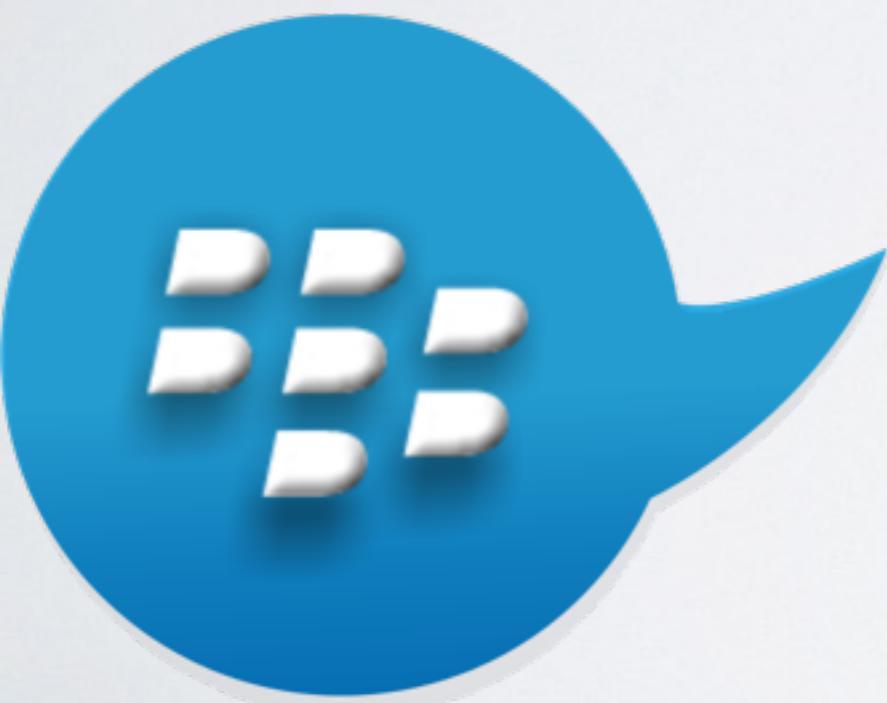
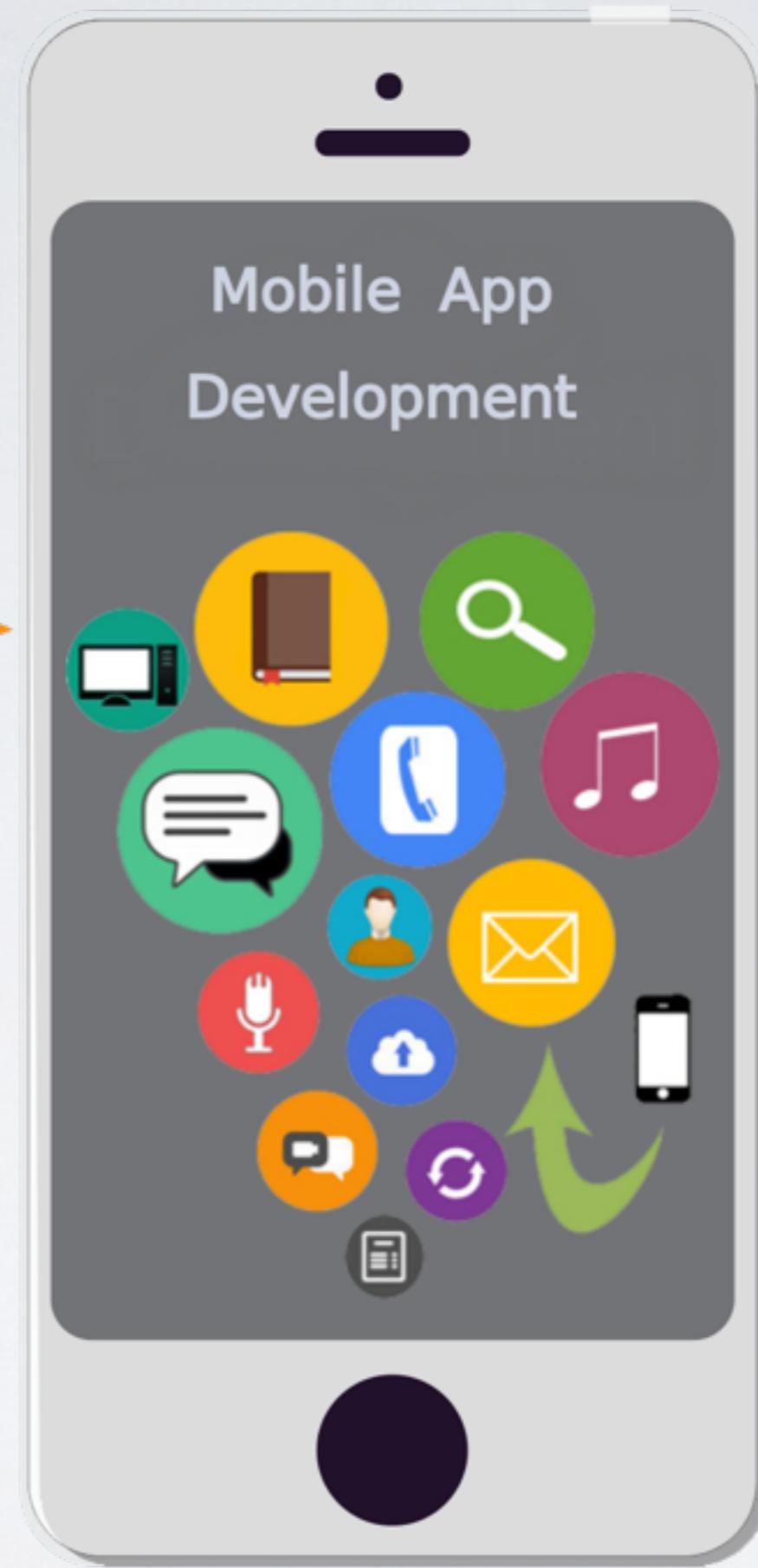


Motivação

Preciso de uma APP









IDE

Emulador

Store

Usuário
final



ANDROID

IDE

Emulador

Store

Usuário
final



Windows
phone

IDE

Emulador

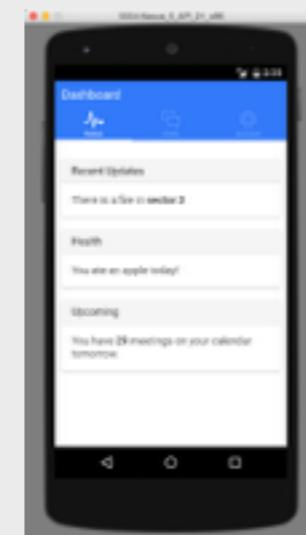
Store

Usuário
final


iOS

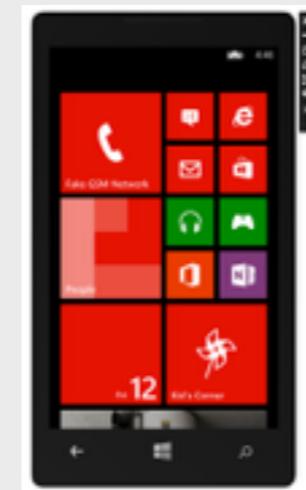



ANDROID



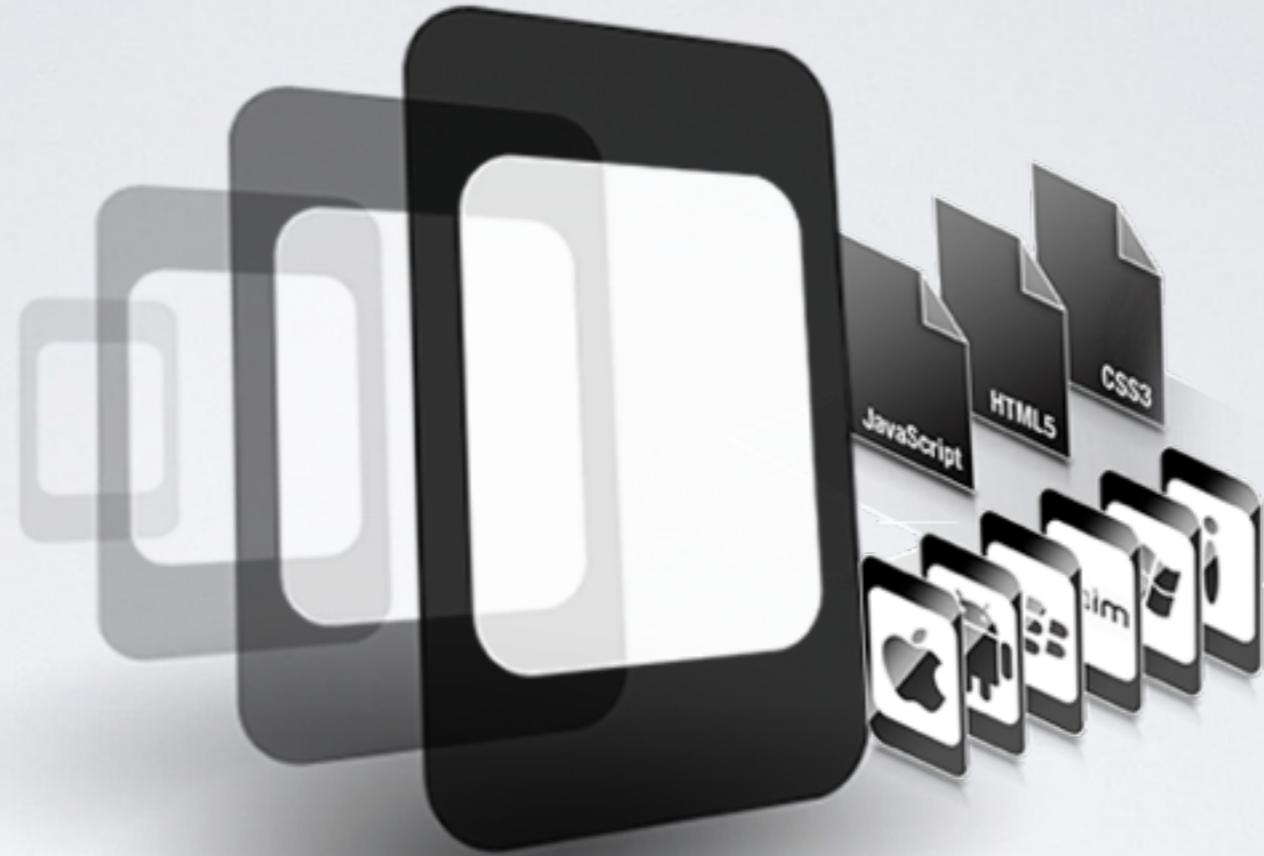

Windows phone


Visual Studio



Phonegap

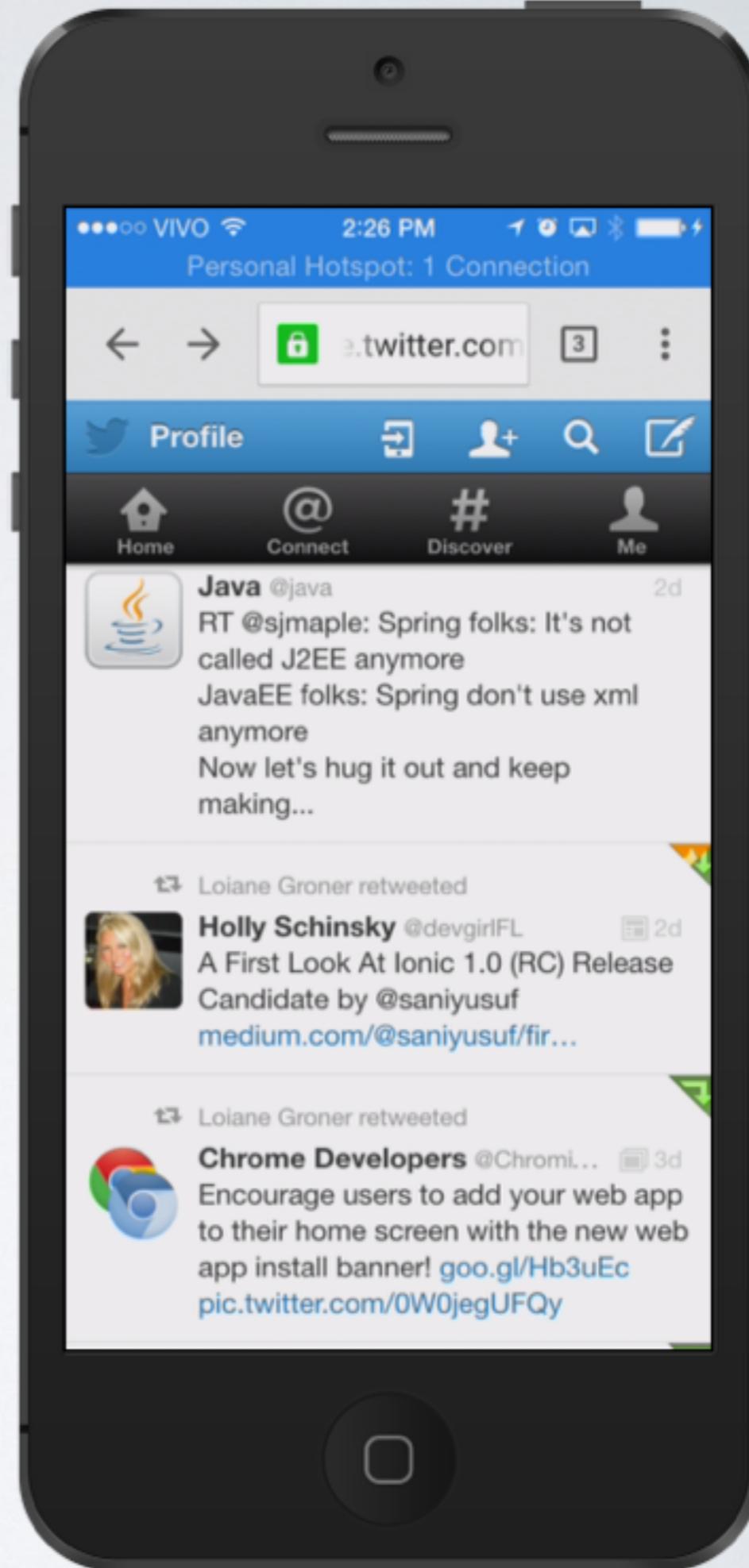




Framework open source para desenvolvimento de apps
mobile híbridas



Híbrido?



Nativo

The image shows the Twitter mobile application running on an iPhone. The top status bar indicates signal strength, battery level, and the time is 2:26 PM. Below the status bar, a blue header bar displays "Personal Hotspot: 1 Connection". The main screen features a profile card for "Loiane Groner" with 23.3K Tweets, a search icon, and a refresh icon. Below the profile card are three tabs: "Tweets" (selected), "Media", and "Favorites". The main content area shows a timeline of tweets. The first tweet is from "Java @java" (1d ago) retweeting "@sjmaple": "Spring folks: It's not called J2EE anymore" and "JavaEE folks: Spring don't use xml anymore". The second tweet is from "Holly Schinsky @devgirlFL" (1d ago) about "A First Look At Ionic 1.0 (RC) Release Candidate by @saniyusuf". The third tweet is from "Chrome Developers @Chromium..." (2d ago) encouraging users to add their web app to the home screen.

Java @java
RT @sjmaple: Spring folks: It's not called J2EE anymore
JavaEE folks: Spring don't use xml anymore
Now let's hug it out and keep making...
32 15

Holly Schinsky @devgirlFL
A First Look At Ionic 1.0 (RC) Release Candidate by @saniyusuf
medium.com/@saniyusuf/fir...
12 6

Chrome Developers @Chromium...
Encourage users to add your web app to their home screen with the new web app install banner! goo.gl/Hb3uEc
pic.twitter.com/OW0jegUFQy

Web

The image shows the Twitter mobile web interface running on an iPhone. The top status bar indicates signal strength, battery level, and the time is 2:26 PM. Below the status bar, a blue header bar displays "Personal Hotspot: 1 Connection". The main screen features a profile card for "Loiane Groner" with 23.3K Tweets, a search icon, and a refresh icon. Below the profile card are four navigation icons: Home, Connect, Discover, and Me. The main content area shows a timeline of tweets. The first tweet is from "Java @java" (2d ago) retweeting "@sjmaple": "Spring folks: It's not called J2EE anymore" and "JavaEE folks: Spring don't use xml anymore". The second tweet is from "Holly Schinsky @devgirlFL" (2d ago) about "A First Look At Ionic 1.0 (RC) Release Candidate by @saniyusuf". The third tweet is from "Chrome Developers @Chromium..." (3d ago) encouraging users to add their web app to the home screen.

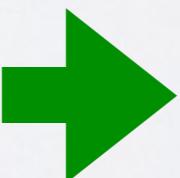
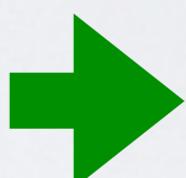
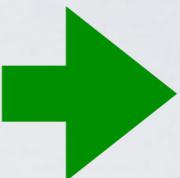
Java @java
RT @sjmaple: Spring folks: It's not called J2EE anymore
JavaEE folks: Spring don't use xml anymore
Now let's hug it out and keep making...
2d

Holly Schinsky @devgirlFL
A First Look At Ionic 1.0 (RC) Release Candidate by @saniyusuf
medium.com/@saniyusuf/fir...
2d

Java @java
RT @sjmaple: Spring folks: It's not called J2EE anymore
JavaEE folks: Spring don't use xml anymore
Now let's hug it out and keep making...
2d

Loiane Groner retweeted
Holly Schinsky @devgirlFL
A First Look At Ionic 1.0 (RC) Release Candidate by @saniyusuf
medium.com/@saniyusuf/fir...
2d

Loiane Groner retweeted
Chrome Developers @Chromium...
Encourage users to add your web app to their home screen with the new web app install banner! goo.gl/Hb3uEc
pic.twitter.com/OW0jegUFQy
3d



HTML



JS



CSS



iOS



ANDROID



BlackBerry



Windows Phone

amazon.com

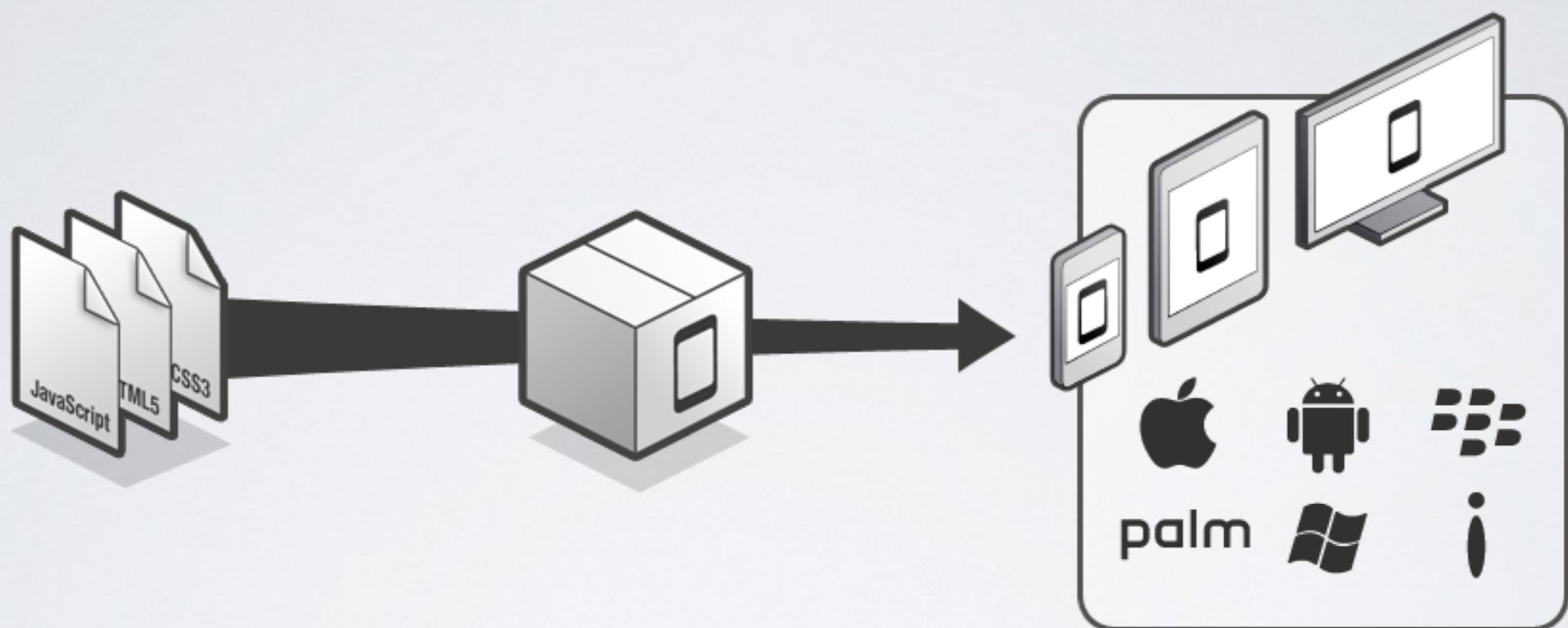
kindle fire





<http://phonegap.com/app/browserquest/>

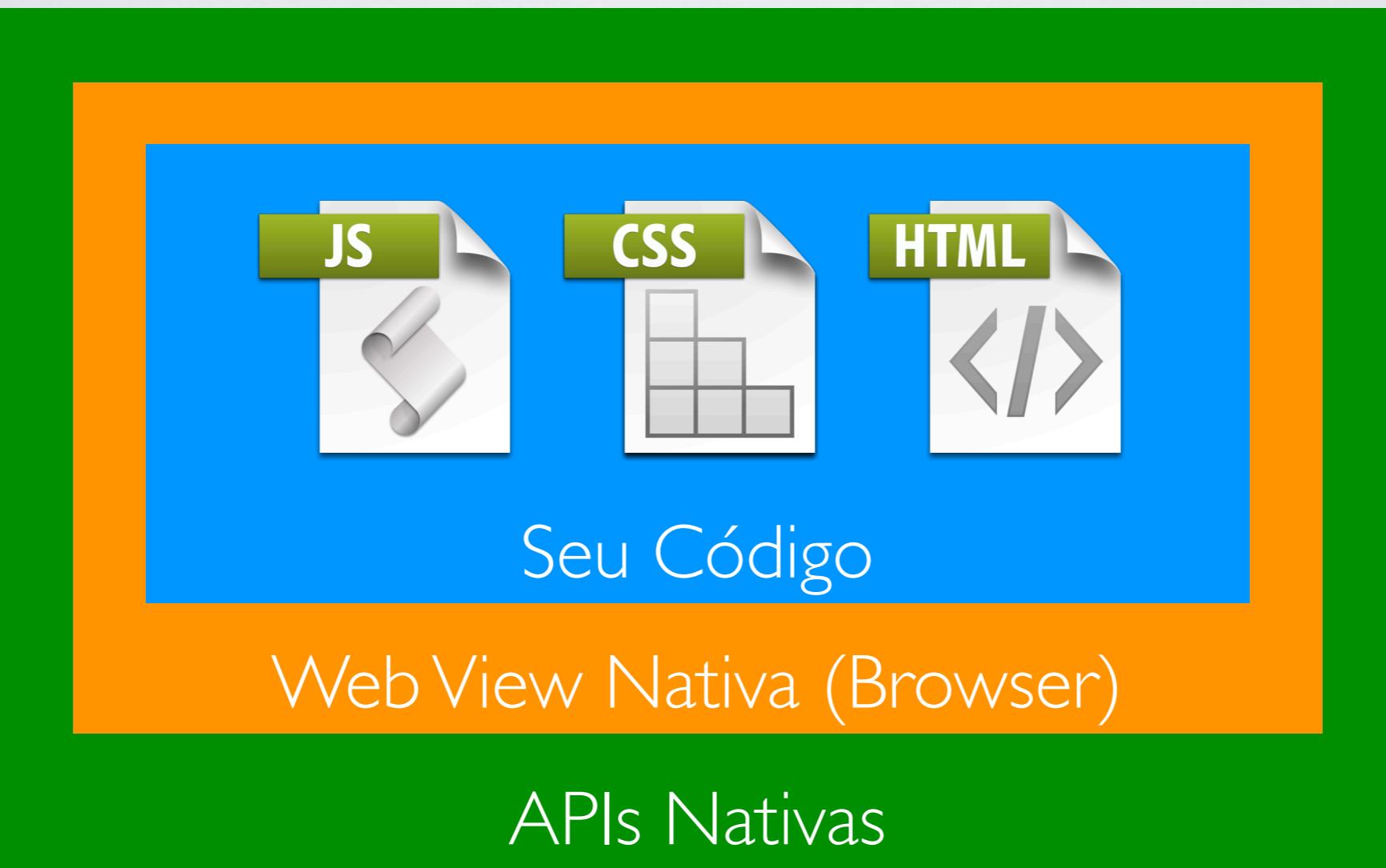
Como funciona



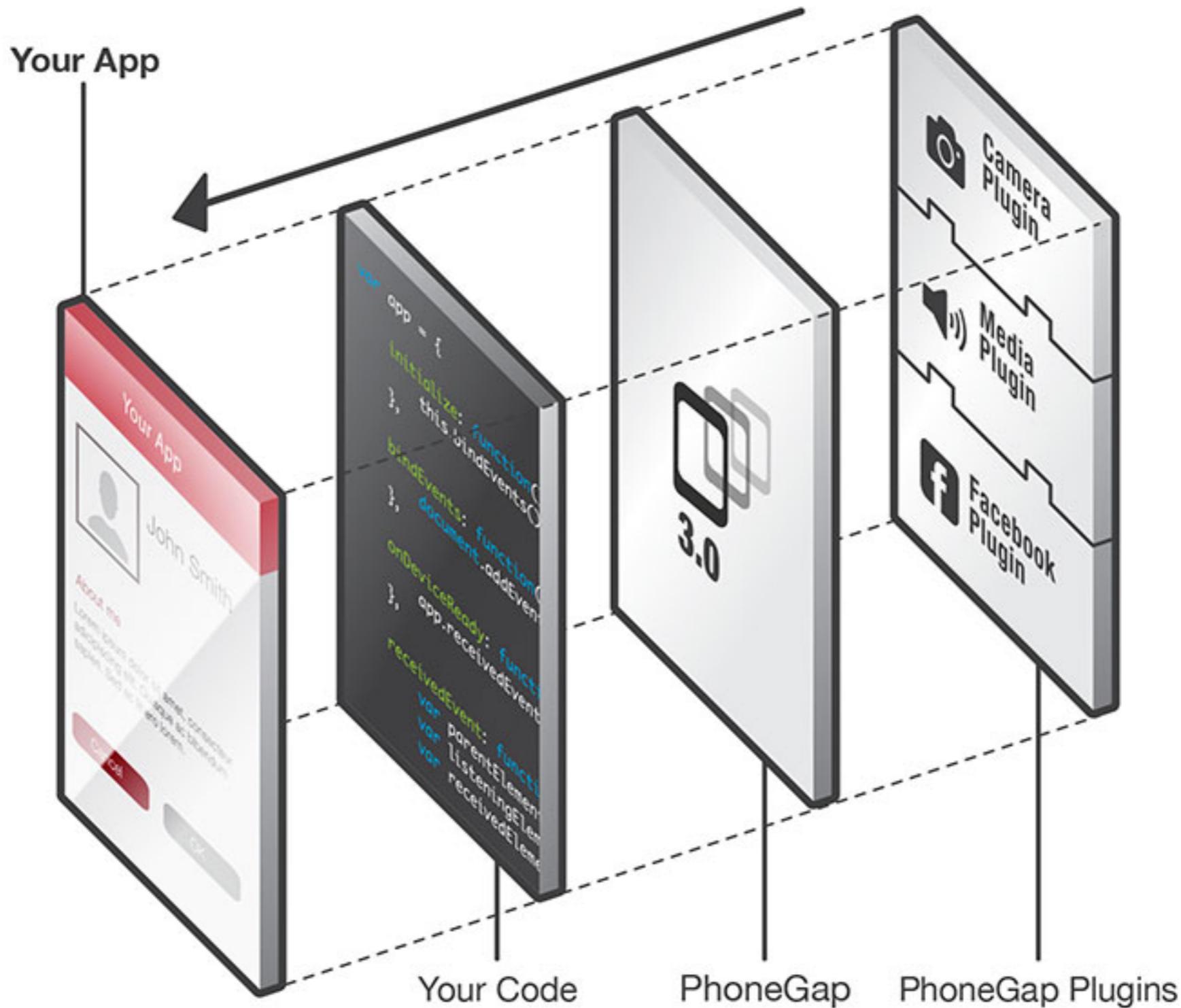


Seu Código











Browser nativo (**WebView**)
sem barra de favoritos
sem barra para mudar url

Phonegap

VS

Cordova?







Adobe





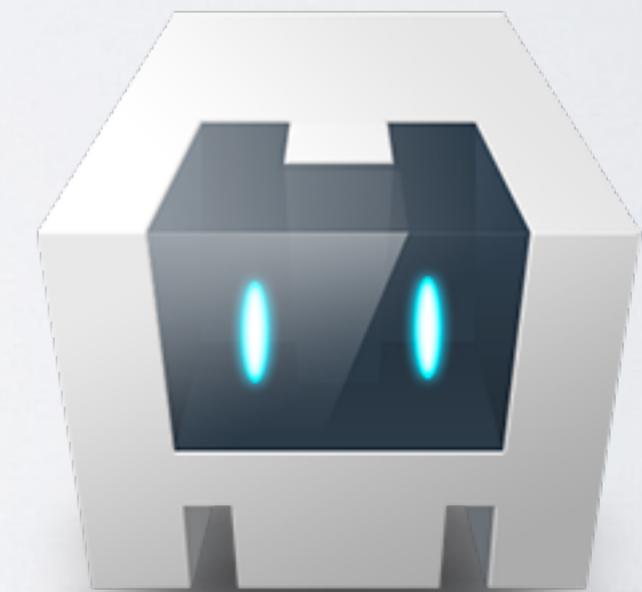
Adobe



The Apache Software
Foundation



The Apache Software
Foundation





Cordova
Comunidade
Código fonte
Plugins
APIs

Ponte com plataforma nativa



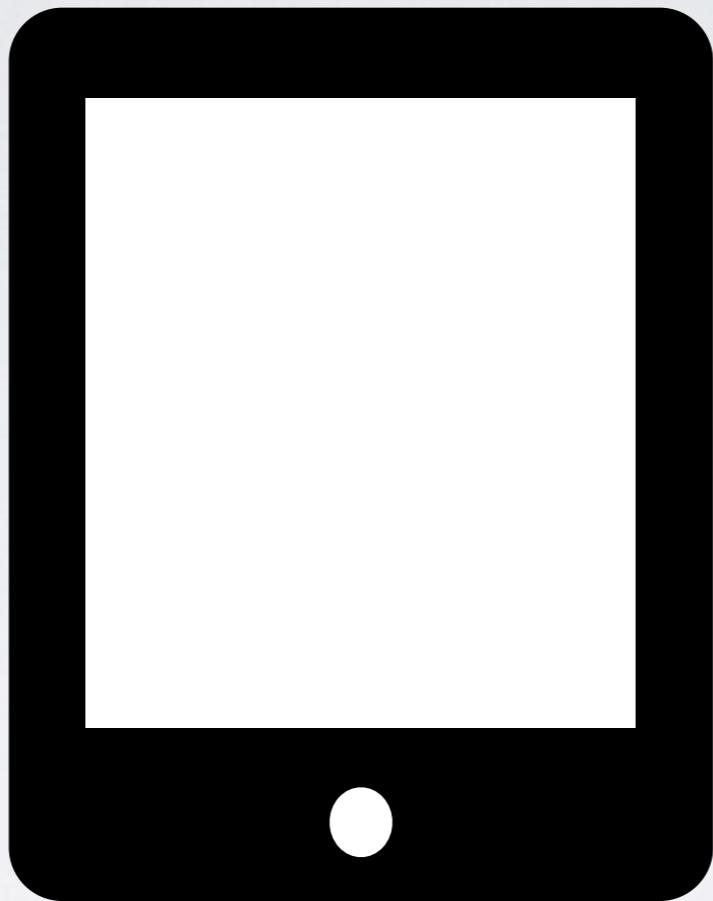
Phonegap
Phonegap Dev App
Phonegap Build
Phonegap Enterprise

```
Loiane:HelloWorld loiane$ phonegap build ios  
[phonegap] executing 'cordova build ios'...  
[phonegap] completed 'cordova build ios'  
Loiane:HelloWorld loiane$
```



phonegap usa o comando
cordova

Arquitetura



LocalStorage (HTML5),
SQLite



LocalStorage
(HTML5),
SQLite

Java, C#, Ruby,
Python, PHP,
Node

MySQL, SQL
Server, Oracle,
Firebase,
NoSQL

O que instalar

```
development — bash — 80x24
Loiane:~ loiane$ cd /Users/loiane/Documents/development
Loiane:development loiane$ phonegap create hello com.loiane.hello "HelloWorld"
Creating a new cordova project with name "HelloWorld" and id "com.loiane.hello"
at location "/Users/loiane/Documents/development/hello"

Using custom www assets from https://github.com/phonegap/phonegap-app-hello-world/archive/master.tar.gz

Downloading hello-world-template library for www...
Download complete

Loiane:development loiane$
```

Phonegap CLI Corvova CLI



<http://nodejs.org/>

Linux ou Mac OS



```
sudo npm install -g phonegap
```



```
sudo npm install -g cordova
```

Windows



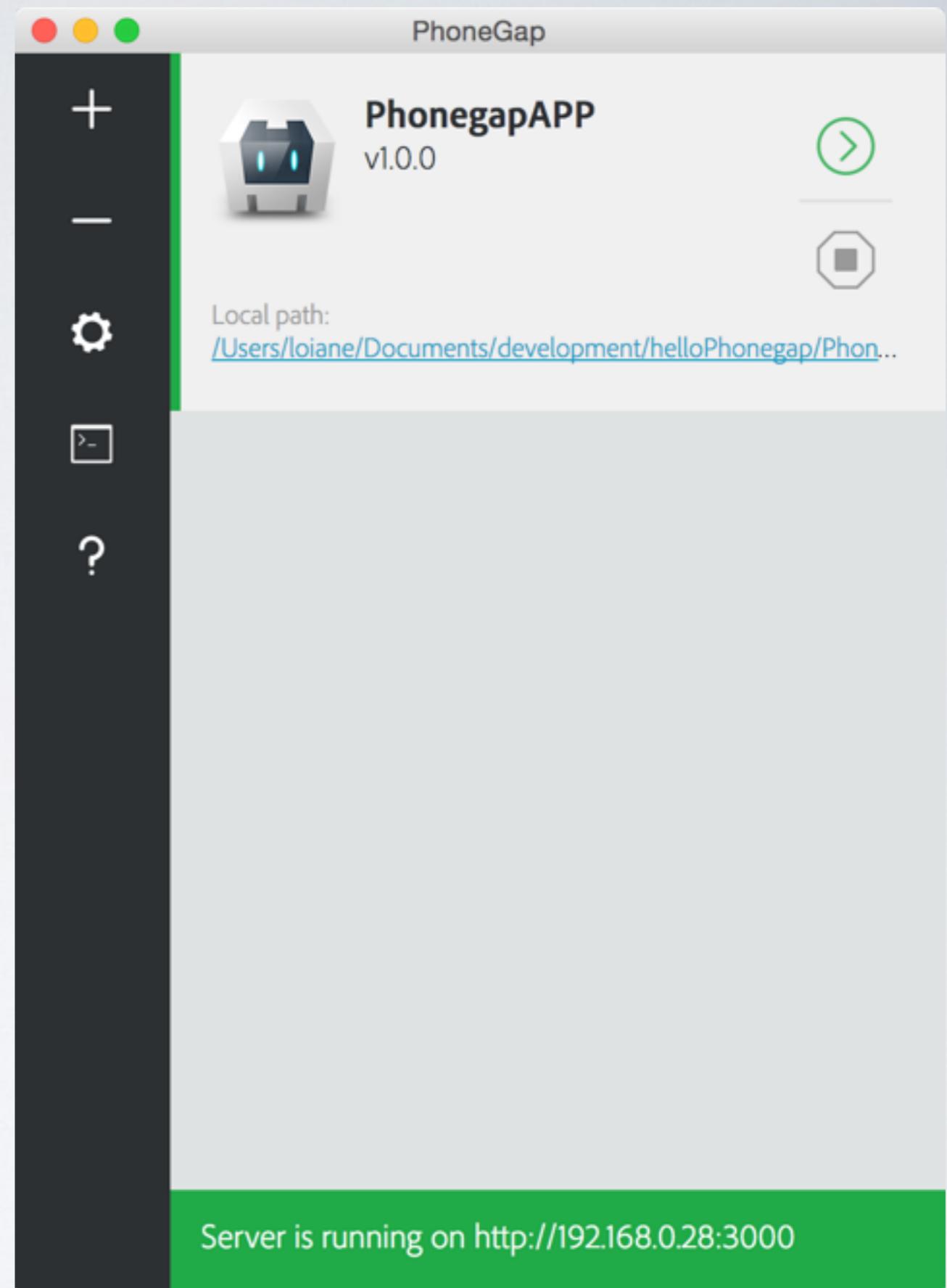
```
npm install -g phonegap
```



```
npm install -g cordova
```

Phonegap Desktop App

- Mac OS
- Windows



<http://github.com/hermwong/phonegap-gui>

Criando um projeto



```
phonegap create hello com.loiane.hello HelloWorld
```



```
cordova create hello com.loiane.hello HelloWorld
```

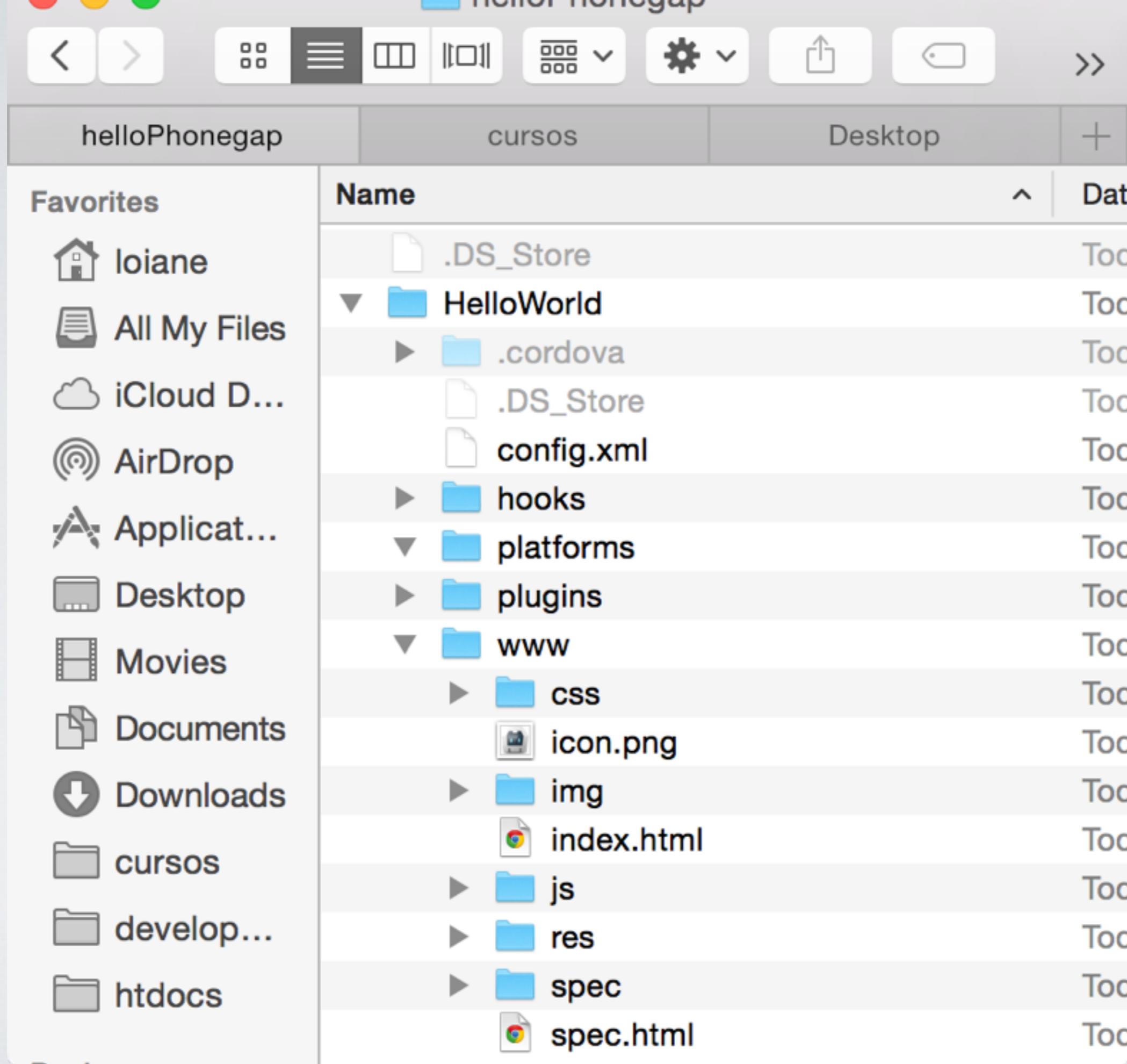


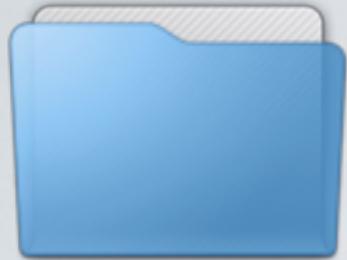
```
phonegap create hello com.loiane.hello HelloWorld
```

Diretório do Projeto

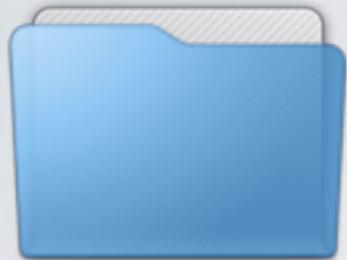
Pacote

Nome Projeto

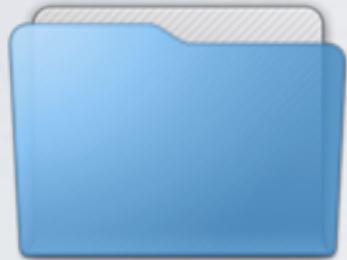




www: código fonte da app (HTML/CSS/JS)



plugins: plugins cordova/phonegap do projeto



platforms: onde o projeto nativo de cada plataforma (android, iOS, wp) é criado



hooks: scripts adicionais para o CLI



config.xml: arquivo de configuração das plataformas e projeto (também usado com phonegap build)

Uso de templates

test — bash — 80x24

Loiane:test loiane\$ phonegap template
['help', 'template']

Usage: phonegap template [command]
phonegap recipe [command]

Description:

Create projects from an existing project template and list templates available.

Commands:

list list available app templates

Examples:

```
$ phonegap template list
$ phonegap create my-app --template hello-world
$ phonegap create my-app --recipe hello-world
```

Loiane:test loiane\$ █



test – bash – 72x8

```
Loiane:test loiane$ phonegap template list
blank          A blank and empty PhoneGap app.
hello-world    Default hello world app for PhoneGap.
hello-cordova  Default hello world app for Cordova.
jquery-mobile-starter  Starter PhoneGap project using jQuery Mobile.
Loiane:test loiane$
```

Testando com Phonegap developer app

Testando com Phonegap Dev app



phonegap serve



Testando e emulando
localmente



iOS



ANDROID



**Windows
phone**



Visual Studio®



ANDROID



loiane – bash – 47x9

```
Loiane:~ loiane$ javac -version
javac 1.8.0_31
Loiane:~ loiane$ ant
Buildfile: build.xml does not exist!
Build failed
Loiane:~ loiane$ android avd
^C
Loiane:~ loiane$ android
Loiane:~ loiane$
```



[http://www.loiane.com/2013/02/installando-
e- configurando-o-java-no-windows-8/](http://www.loiane.com/2013/02/installando-e- configurando-o-java-no-windows-8/)



Installing the Android SDK

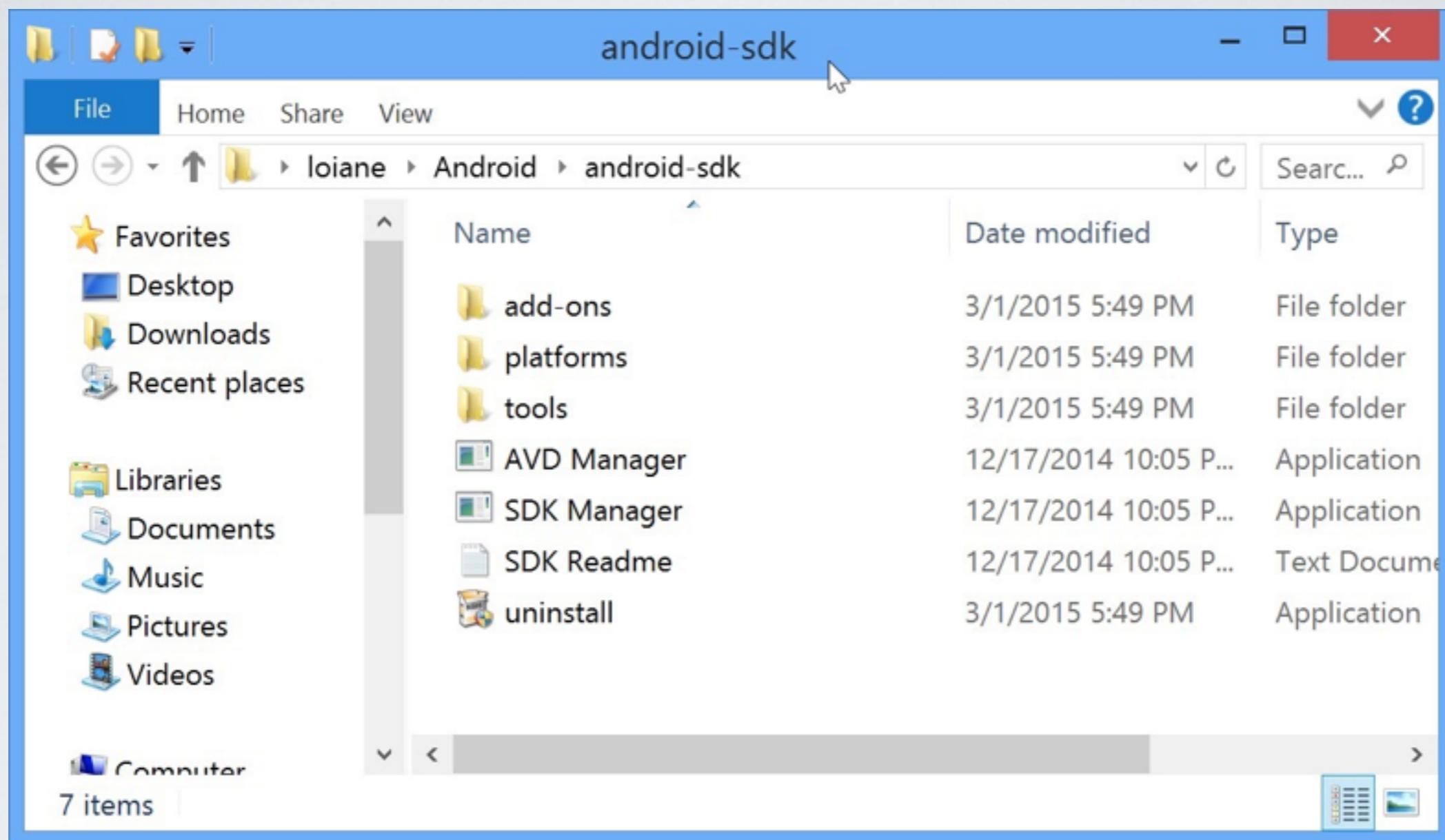
If you haven't already, [download the Android SDK bundle for Android Studio](#) or the [stand-alone SDK Tools](#).

Then, select which SDK bundle you want to install:

[Android Studio](#)

[Stand-alone SDK Tools](#)

<http://developer.android.com/sdk/installing/index.html>



System Properties

X

Computer Name | Hardware | Advanced | System Protection | Remote

You must be logged on as an Administrator to make most of these changes.

Performance

Visual effects, processor scheduling, memory usage, and virtual memory

Settings...

User Profiles

Desktop settings related to your sign-in

Settings...

Startup and Recovery

System startup, system failure, and debugging information

Settings...

Environment Variables...

OK

Cancel

Apply

Environment Variables

X

User variables for loiane

Variable	Value
PATH	C:\Users\loiane\AppData\Roaming\npm
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp

New...

Edit...

Delete

System variables

Variable	Value
ComSpec	C:\Windows\system32\cmd.exe
FP_NO_HOST_CH...	NO
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_31
NUMBER_OF_PRO...	1
OS	Windows_NT

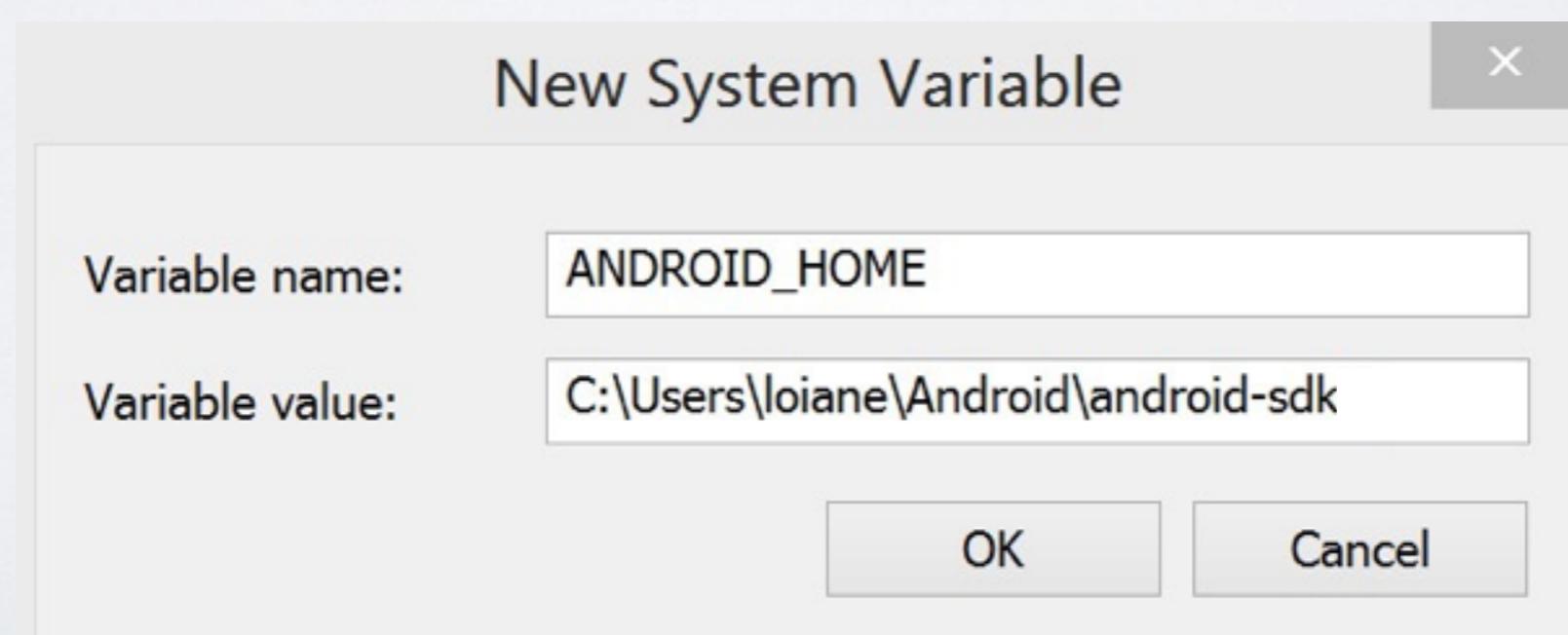
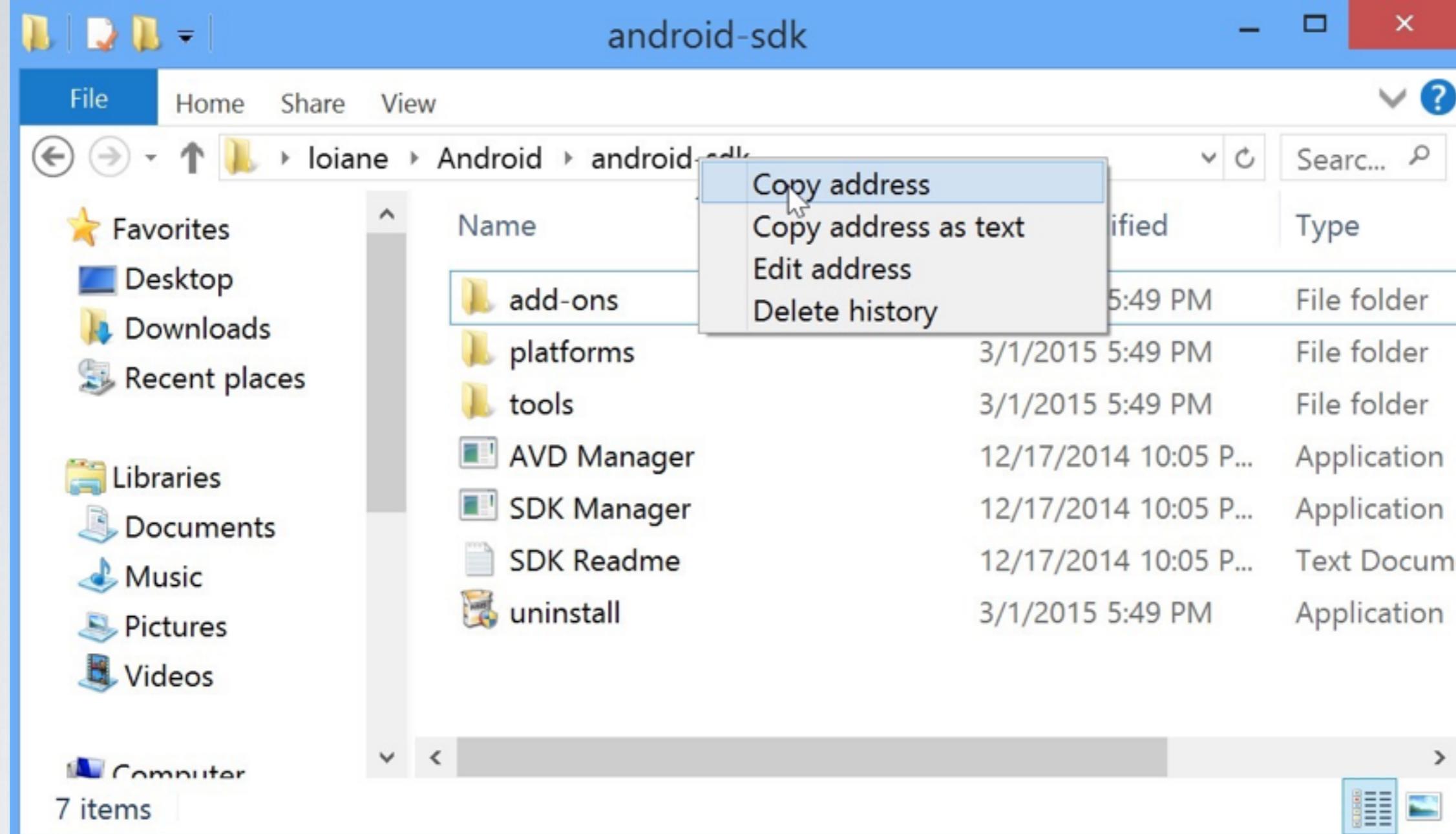
New...

Edit...

Delete

OK

Cancel



System variables

Variable	Value
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_31
NUMBER_OF_PRO...	1
OS	Windows NT
Path	C:\ProgramData\Oracle\Java\javapath;C:\P...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;....

New...

Edit...

Delete

Edit System Variable

X

Variable name:

Path

Variable value:

%ANDROID_HOME%\platforms;%ANDROID_HOME%\tools

OK

Cancel

%ANDROID_HOME%\platforms;%ANDROID_HOME%\tools

cmd - android

```
C:\Users\loiane\Documents\phonegap\hello>android
```

java.exe[64]:4052 < 150215[64] 1/1 [+ CAPS NUM SCRL PRIT (1,1)-(64,4) 64x1000 3236 100%

Android SDK Manager

Packages Tools

SDK Path: C:\Users\loiane\Android\android-sdk

Packages

Name	API	Rev.	Status
Tools			
Android 5.0.1 (API 21)			
Android 4.4W.2 (API 20)			
Android 4.4.2 (API 19)			
Android 4.3.1 (API 18)			
Android 4.2.2 (API 17)			
Android 4.1.2 (API 16)			
Android 4.0.3 (API 15)			
Android 4.0 (API 14)			

Show: Updates/New Installed Select [New](#) or [Updates](#)

Obsolete [Deselect All](#) [Delete package](#)

Done loading packages.



< A P A C H E A N T >

<http://ant.apache.org/bindownload.cgi>

New System Variable

X

Variable name:

ANT_HOME

Variable value:

C:\Users\loiane\Documents\apache-ant-1.9.4

OK

Cancel

Edit System Variable

X

Variable name:

Path

Variable value:

%ANDROID_HOME%\tools;%ANT_HOME%\bin

OK

Cancel

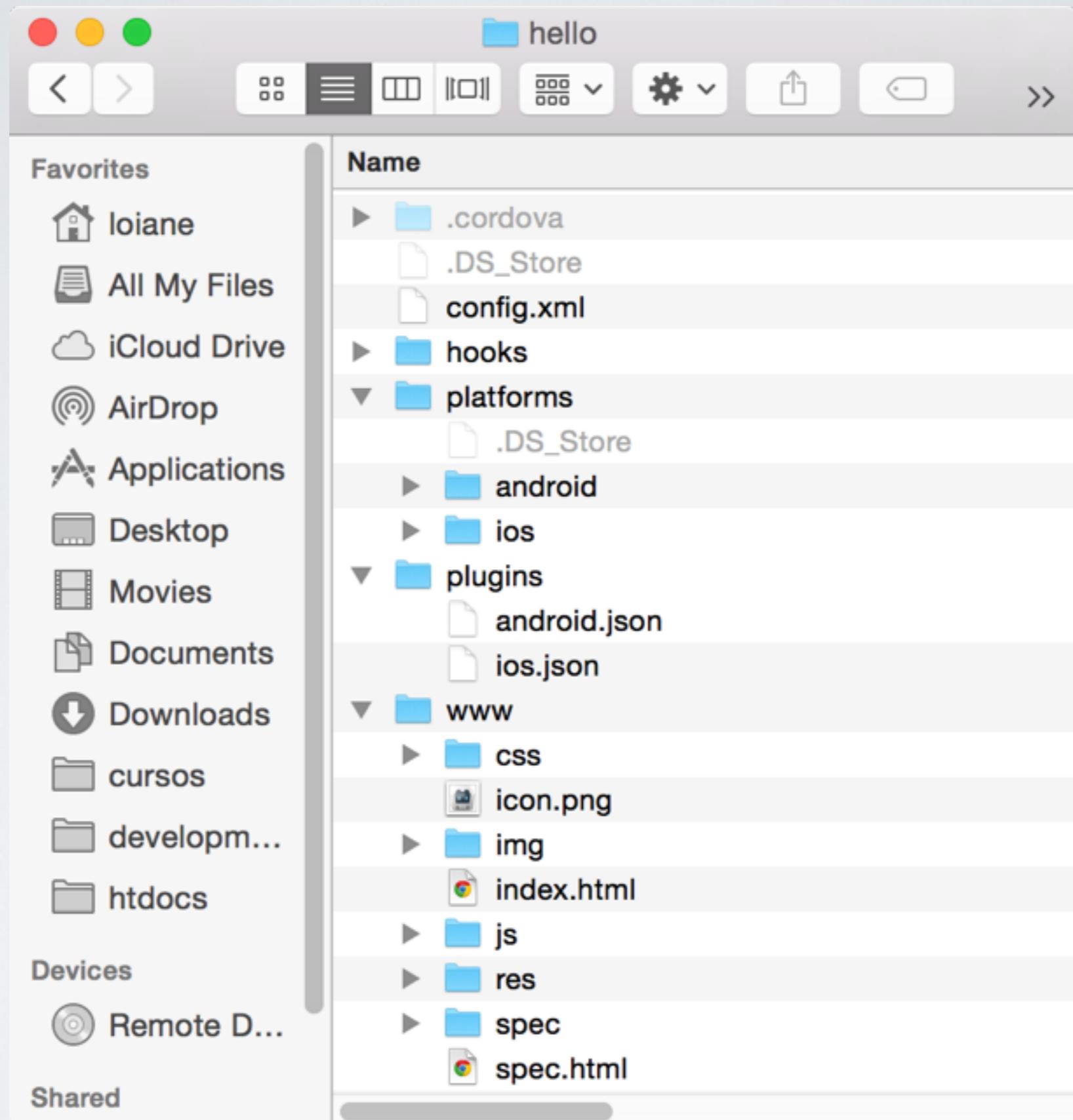
Add Plataforma



`phonegap platform add android`



`cordova platform add android`



Build manual



phonegap build



cordova build



phonegap build



phonegap build PLATFORM



`phonegap build PLATFORM --debug`



`phonegap build PLATFORM --release`

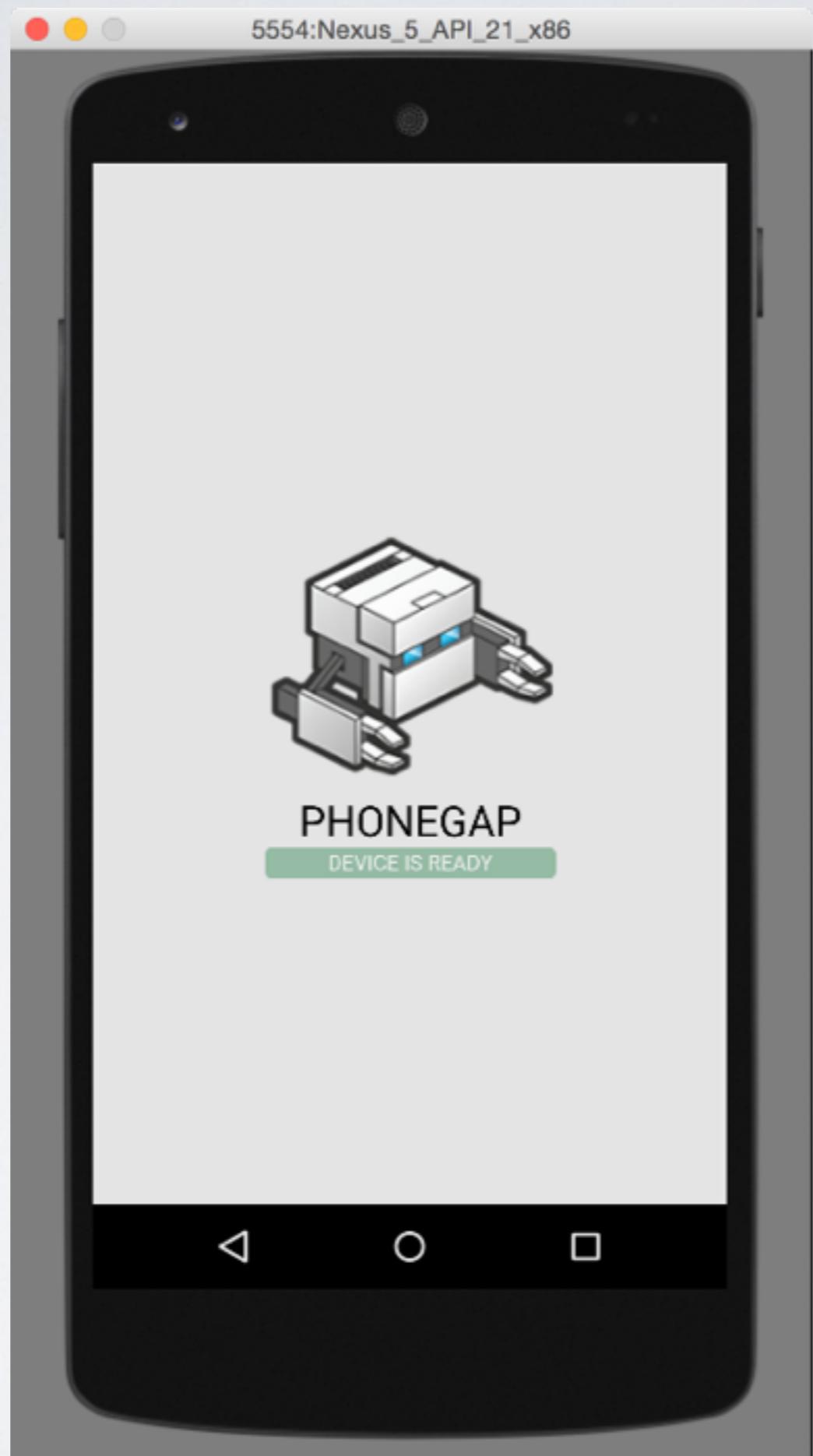
Emular



phonegap emulate android



cordova emulate android



Instalar app no dispositivo



`phonegap run android`



`cordova run android`

Trabalhando com plugins e APIs



APACHE CORDOVA PLUGINS REGISTRY

Discover plugins for your
Apache Cordova project.



Find a plugin...



Browse all 802 plugins



Contribute

Want to author &
publish plugins?

Please read our docs.

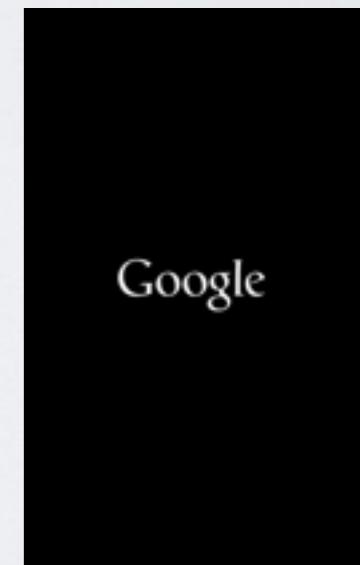
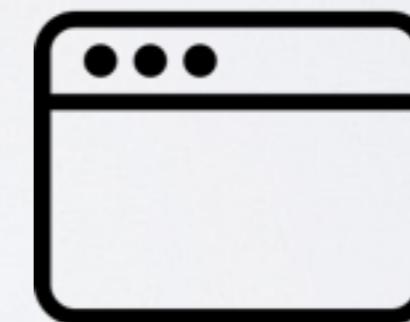
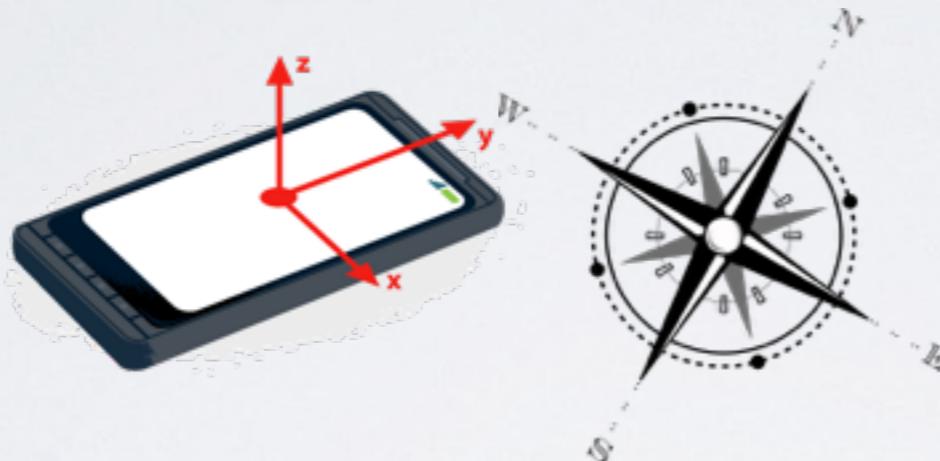


Utilize

Need to install or
remove a plugin?

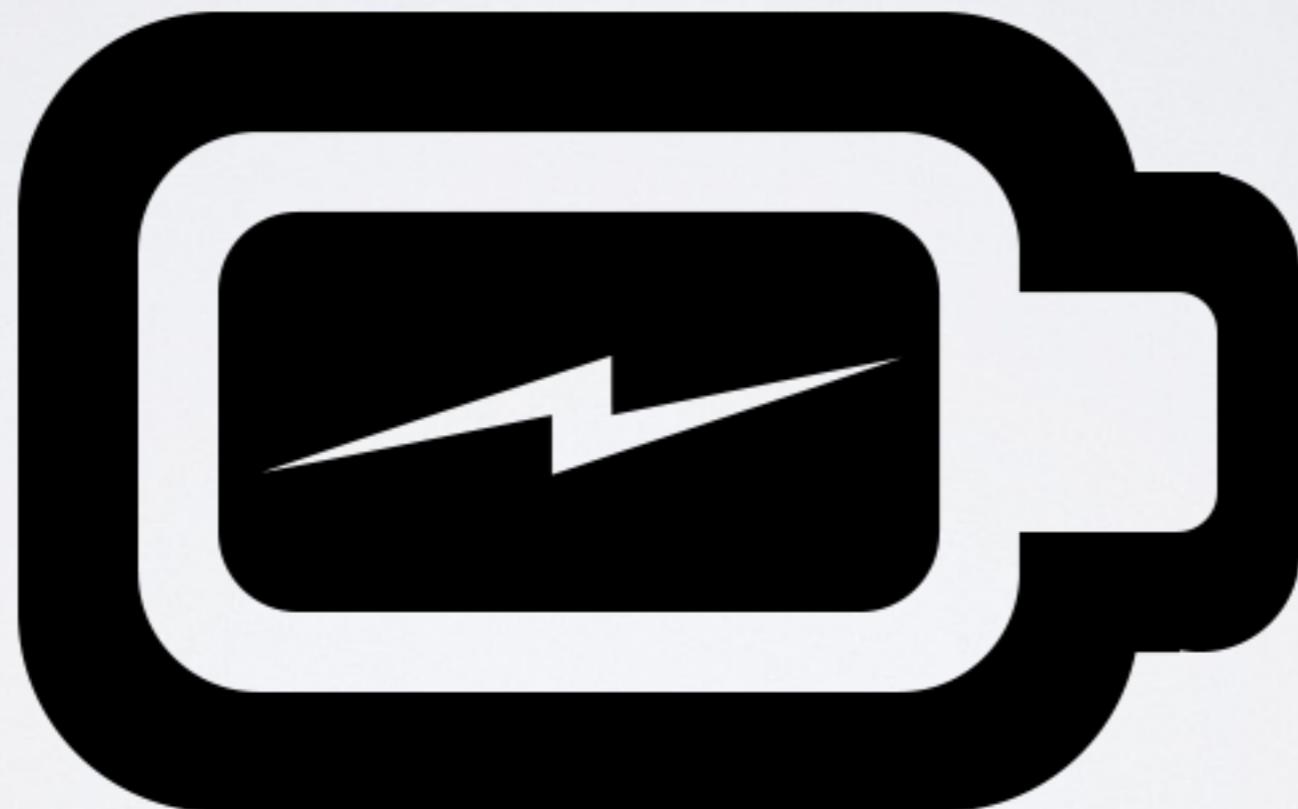
Check the documentation.

APIs Cordova



[https://github.com/loiane/ionic-cordova-phonegap-examples/
tree/master/phonegap-cordova-plugins](https://github.com/loiane/ionic-cordova-phonegap-examples/tree/master/phonegap-cordova-plugins)

Battery Status





```
phonegap plugin add org.apache.cordova.battery-status
```



```
cordova plugin add org.apache.cordova.battery-status
```

```
window.addEventListener("batterystatus", onBatteryStatus, false);

function onBatteryStatus(info) {

    alert("Level: " + info.level + " isPlugged: " + info.isPlugged);

    document.getElementById("level").innerHTML = info.level;
    document.getElementById("isPlugged").innerHTML = info.isPlugged;
}
```

```
window.addEventListener("batterystatus", onBatteryStatus, false);

function onBatteryStatus(info) {

    alert("Level: " + info.level + " isPlugged: " + info.isPlugged);

    document.getElementById("level").innerHTML = info.level;
    document.getElementById("isPlugged").innerHTML = info.isPlugged;
}
```

batterystatus

batterycritical

batterylow

```
window.addEventListener("batterystatus", onBatteryStatus, false);

function onBatteryStatus(info) {

    alert("Level: " + info.level + " isPlugged: " + info.isPlugged);

    document.getElementById("level").innerHTML = info.level;
    document.getElementById("isPlugged").innerHTML = info.isPlugged;
}
```

batterystatus

batterycritical

batterylow

- **level:** porcentagem bateria (0-100). (Number)
- **isPlugged:** indica se aparelho está plugado. (Boolean)

localhost:4400/?enableripple=cordova-3.0.0

Loiane

Devices

iPhone 3G/3Gs

Orientation

Platforms

Information

Platform: Apache Cordova

Device: iPhone 3G/3Gs

OS: iPhone 3

Manufacturer: Apple

Screen: 320x480

Density: 163 PPI

User Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/420.1 (KHTML, like Gecko) Version/3.0 Mobile/1A542a Safari/419.3

Accelerometer

Battery Status

Battery Level: 69 %

Is Plugged:

beta

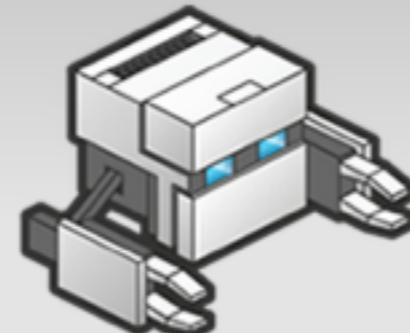
Settings

Device & Network Settings

Geo Location

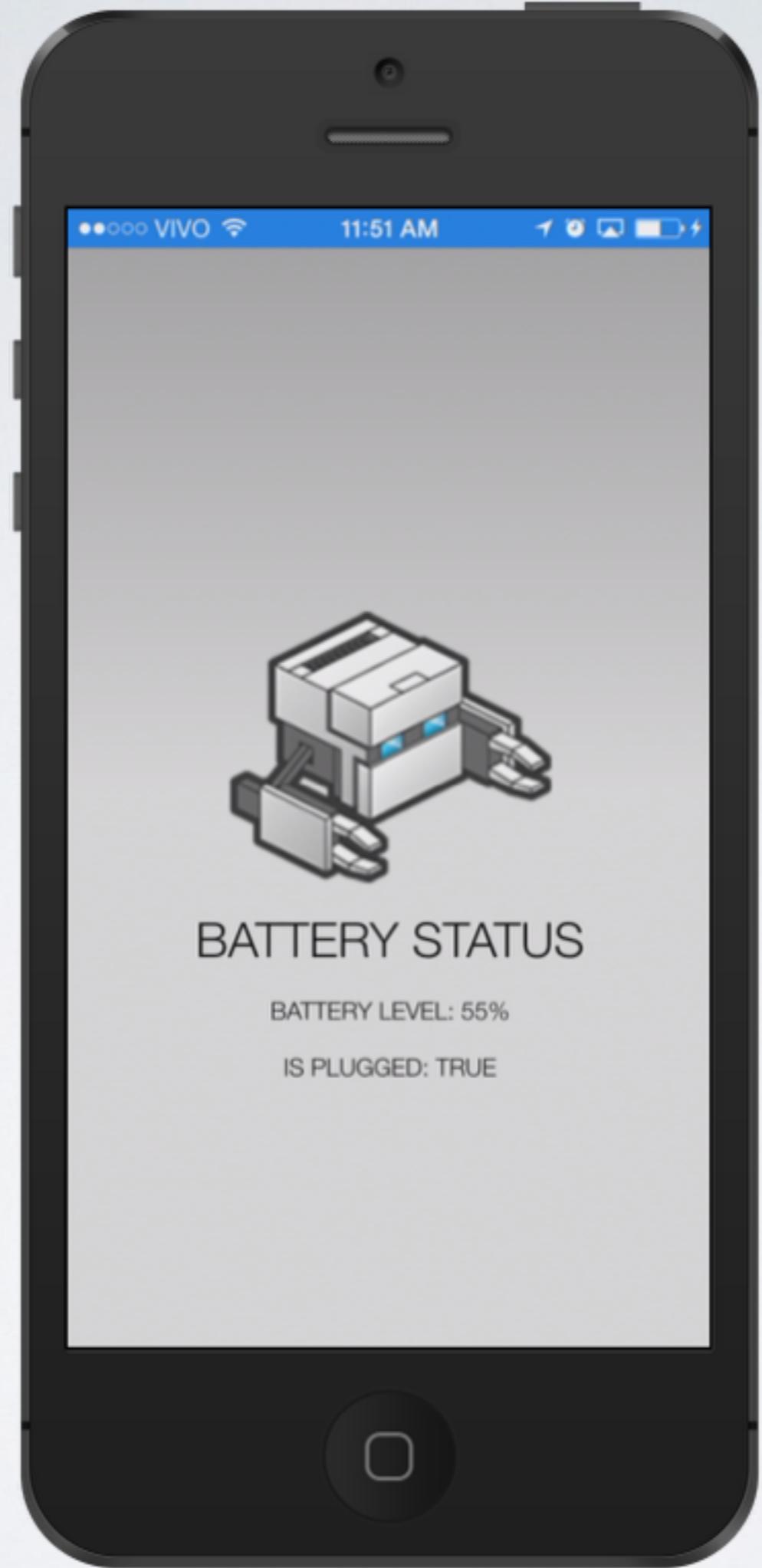
Config

Events

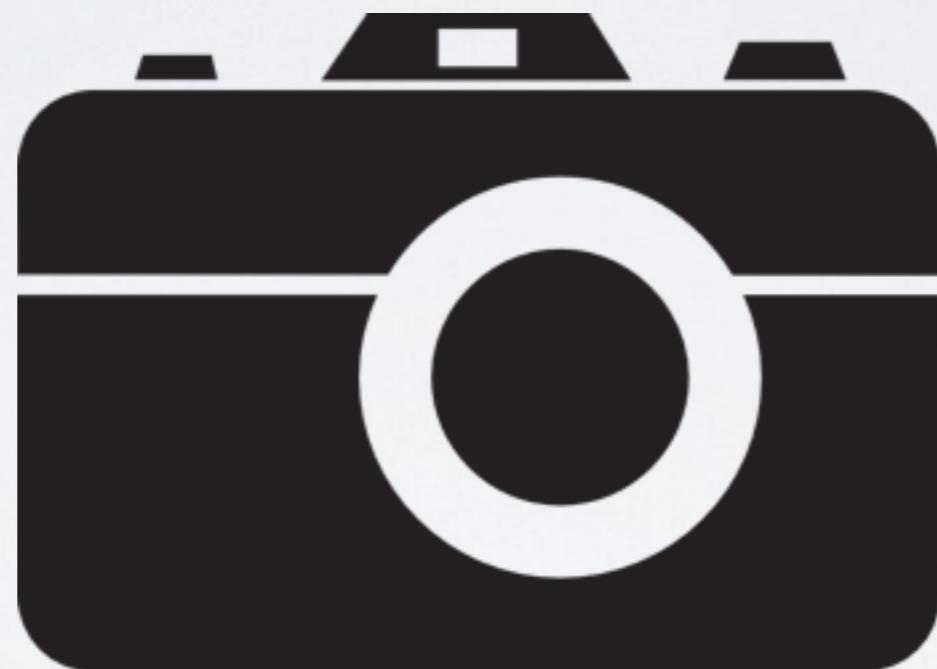
 BATTERY STATUS

BATTERY LEVEL: 69%

IS PLUGGED: TRUE



Camera





```
phonegap plugin add org.apache.cordova.camera
```



```
cordova plugin add org.apache.cordova.camera
```

```
navigator.camera.getPicture( cameraSuccess, cameraError, cameraOptions );
```

```
navigator.camera.getPicture( cameraSuccess, cameraError, cameraOptions );
```

- A String containing the base64-encoded photo image.
- A String representing the image file location on local storage (default).

```
navigator.camera.getPicture( cameraSuccess, cameraError, cameraOptions );
```

- A String containing the base64-encoded photo image.
- A String representing the image file location on local storage (default).

```
{ quality : 75,  
destinationType : Camera.DestinationType.DATA_URL,  
sourceType : Camera.PictureSourceType.CAMERA,  
allowEdit : true,  
encodingType: Camera.EncodingType.JPEG,  
targetWidth: 100,  
targetHeight: 100,  
popoverOptions: CameraPopoverOptions,  
saveToPhotoAlbum: false };
```

```
navigator.camera.getPicture( cameraSuccess, cameraError, cameraOptions );
```

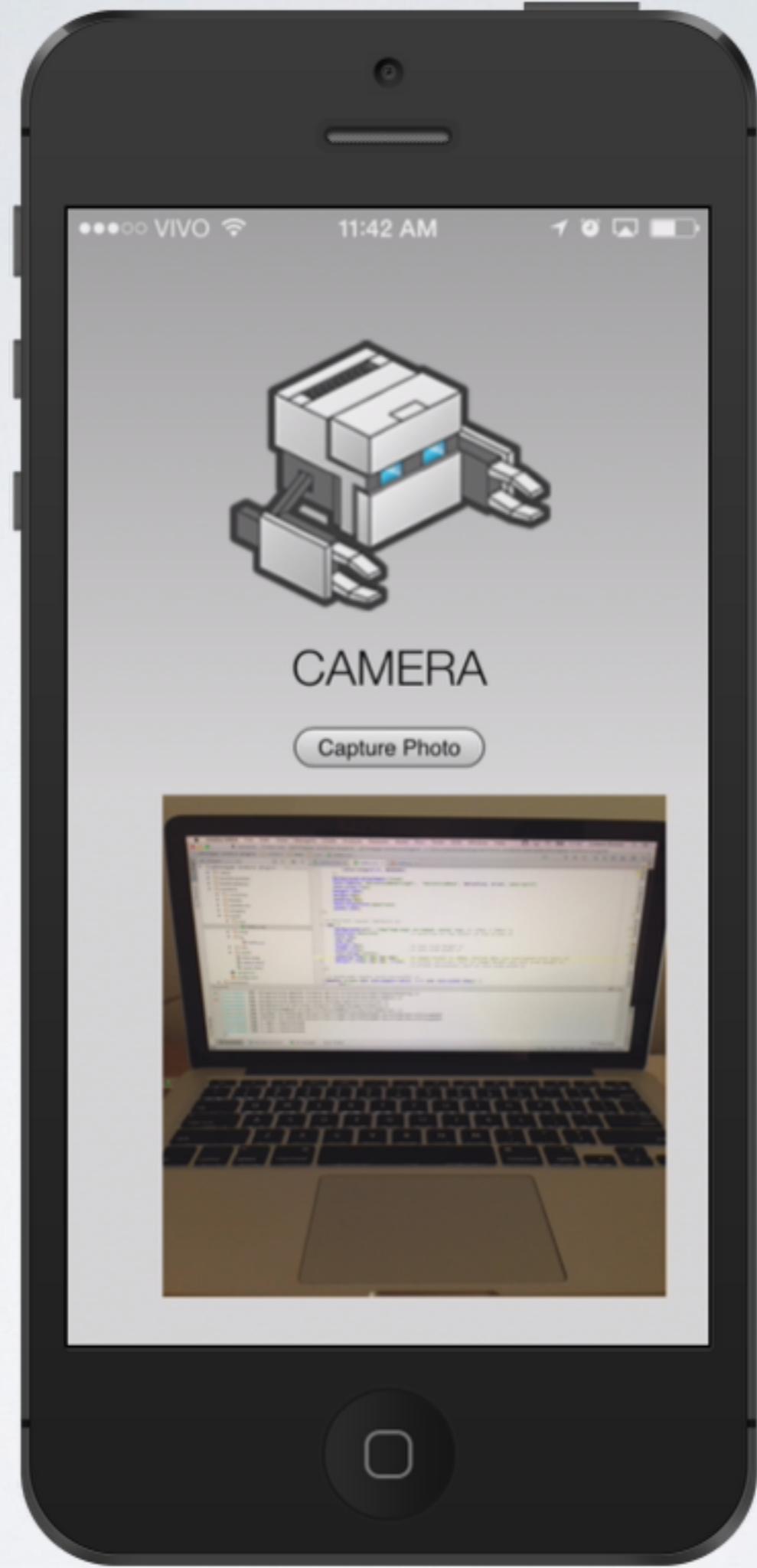
- A String containing the base64-encoded photo image.
- A String representing the image file location on local storage (default).

```
{ quality : 75,  
destinationType : Camera.DestinationType.DATA_URL,  
sourceType : Camera.PictureSourceType.CAMERA,  
allowEdit : true,  
encodingType: Camera.EncodingType.JPEG,  
targetWidth: 100,  
targetHeight: 100,  
popoverOptions: CameraPopoverOptions,  
saveToPhotoAlbum: false };
```

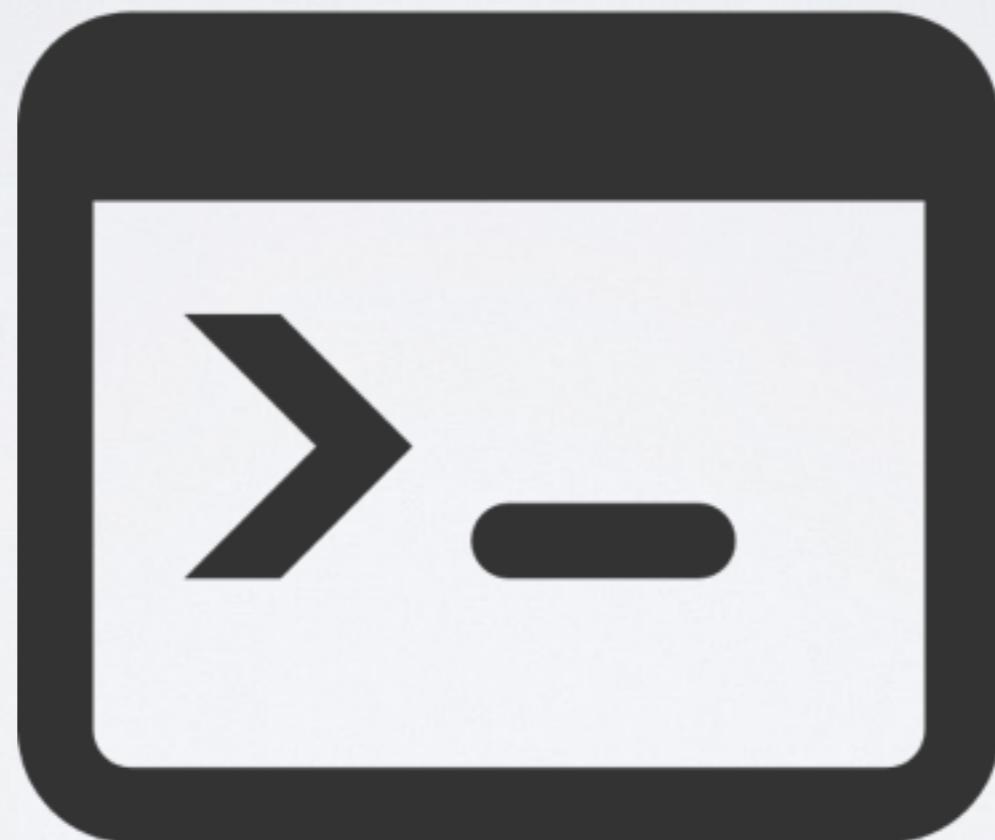
```
capturePhoto: function() {
    navigator.camera.getPicture(onSuccess, onFail, { quality: 50,
        destinationType: Camera.DestinationType.DATA_URL
    });

    function onSuccess(imageData) {
        var image = document.getElementById('myImage');
        image.style.display = 'block';
        image.src = "data:image/jpeg;base64," + imageData;
    }

    function onFail(message) {
        alert('Failed because: ' + message);
    }
}
```

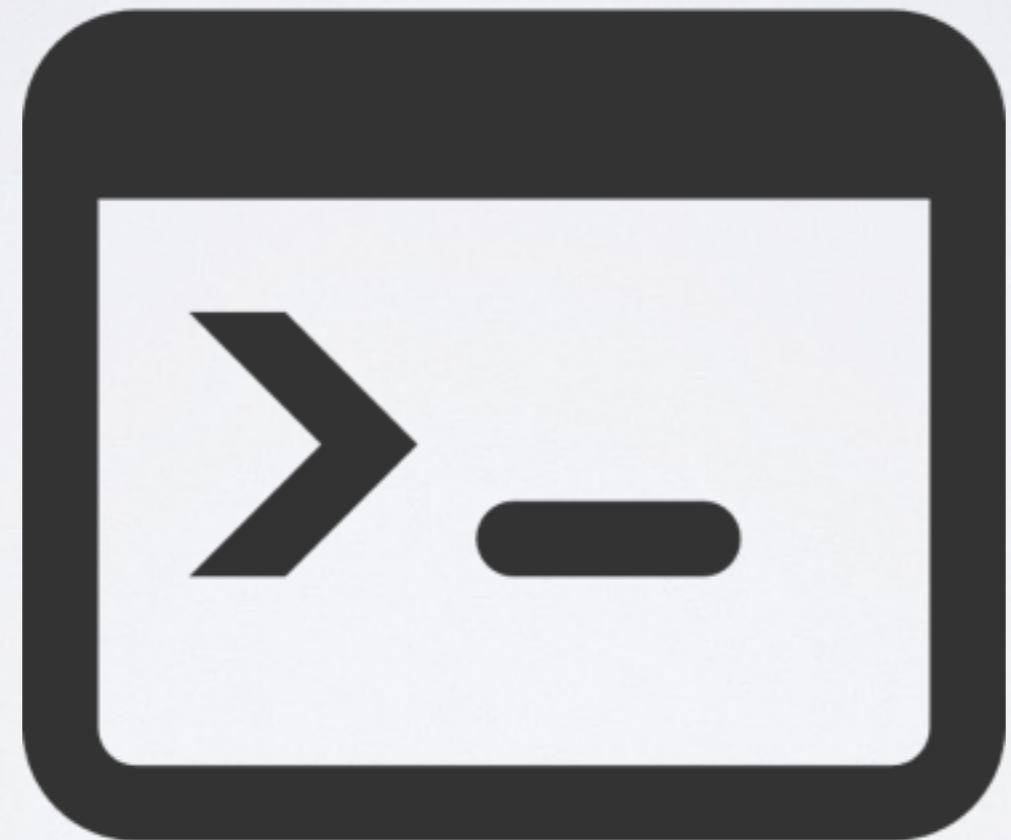


Console





Console





```
phonegap plugin add org.apache.cordova.console
```



```
cordova plugin add org.apache.cordova.console
```

```
console.log('*** Devs aprovam mensagem no console!');
```

```
console — node — 80x24  
[phonegap] 200 /plugins/org.apache.cordova.contacts/www/ios/contacts.js  
[phonegap] 200 /plugins/org.apache.cordova.contacts/www/ios/Contact.js  
[phonegap] 200 /plugins/org.apache.cordova.device/www/device.js  
[phonegap] 200 /plugins/org.apache.cordova.device-motion/www/Acceleration.js  
[phonegap] 200 /plugins/org.apache.cordova.device-motion/www/accelerometer.js  
[phonegap] 200 /plugins/org.apache.cordova.device-orientation/www/CompassError.j  
s  
[phonegap] 200 /plugins/org.apache.cordova.device-orientation/www/CompassHeading  
.js  
[phonegap] 200 /plugins/org.apache.cordova.device-orientation/www/compass.js  
[phonegap] 200 /plugins/org.apache.cordova.dialogs/www/notification.js  
[phonegap] 200 /plugins/nl.x-services.plugins.insomnia/www/Insomnia.js  
[phonegap] 200 /plugins/ADBMobile/sdks/Cordova/ADBMobile/Shared/ADBHelper.js  
[phonegap] [console.log] Received Event: deviceready  
[phonegap] 200 /socket.io/?EI0=2&transport=polling&t=1427295678945-3&sid=21yZV5Z  
mylcDQIeJAAAA  
[phonegap] [console.log] *** Devs aprovaram mensagem no console!  
[phonegap] 200 /socket.io/?EI0=2&transport=polling&t=1427295678981-4&sid=21yZV5Z  
mylcDQIeJAAAA  
[phonegap] 200 /socket.io/?EI0=2&transport=polling&t=1427295678767-2&sid=21yZV5Z  
mylcDQIeJAAAA  
[phonegap] 200 /__api__/autoreload  
[phonegap] 200 /__api__/autoreload
```



Contacts



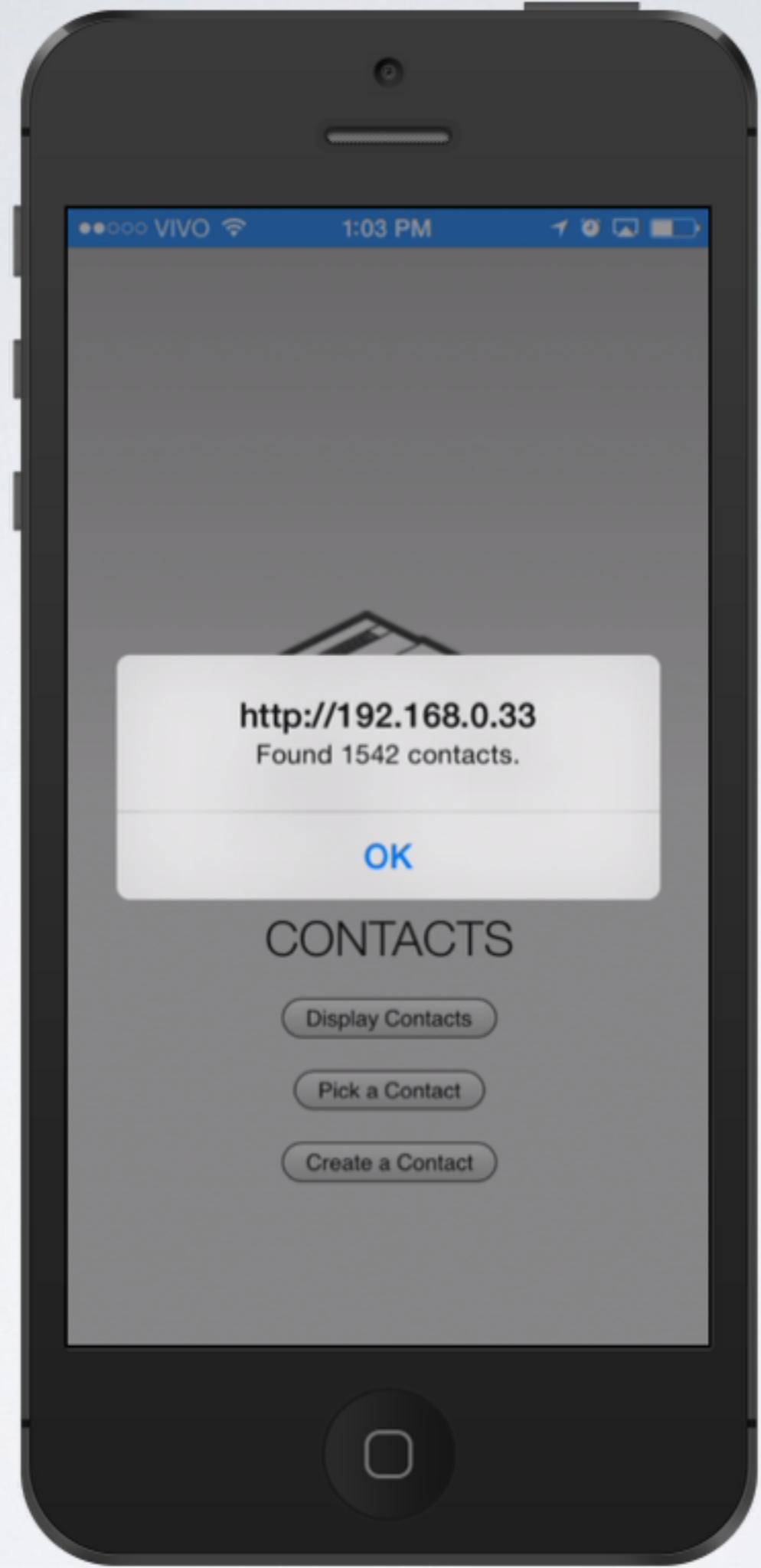


```
phonegap plugin add org.apache.cordova.contacts
```

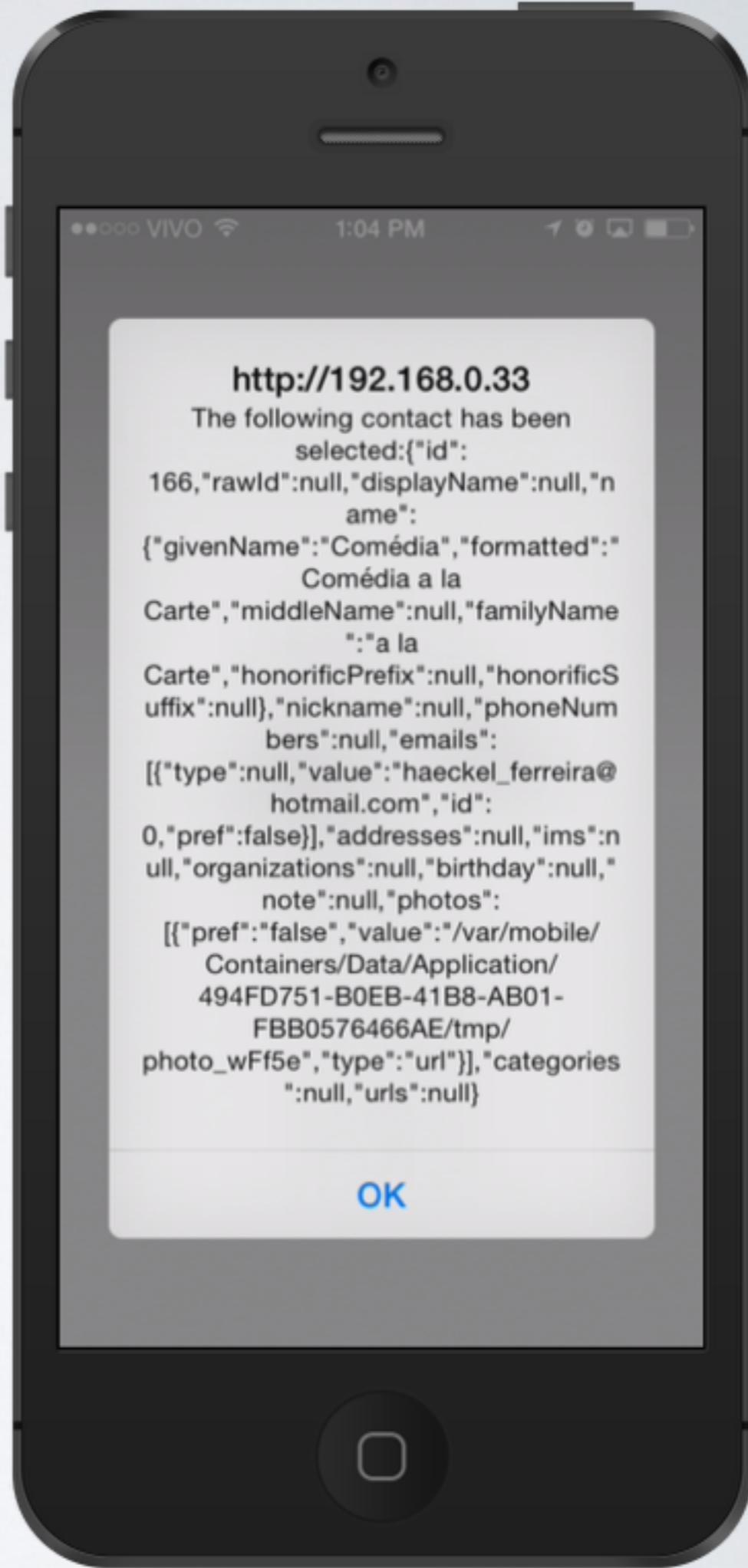
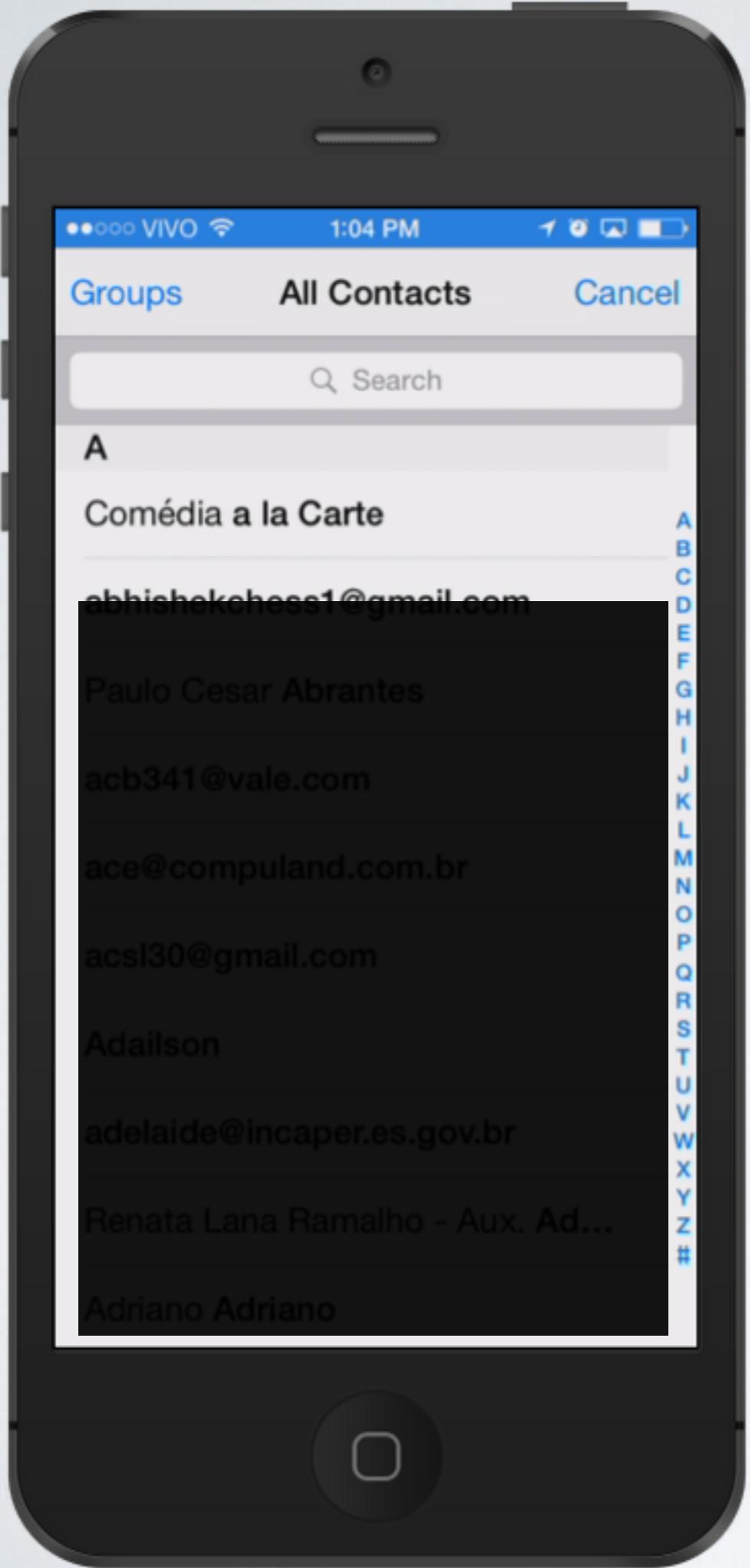


```
cordova plugin add org.apache.cordova.contacts
```

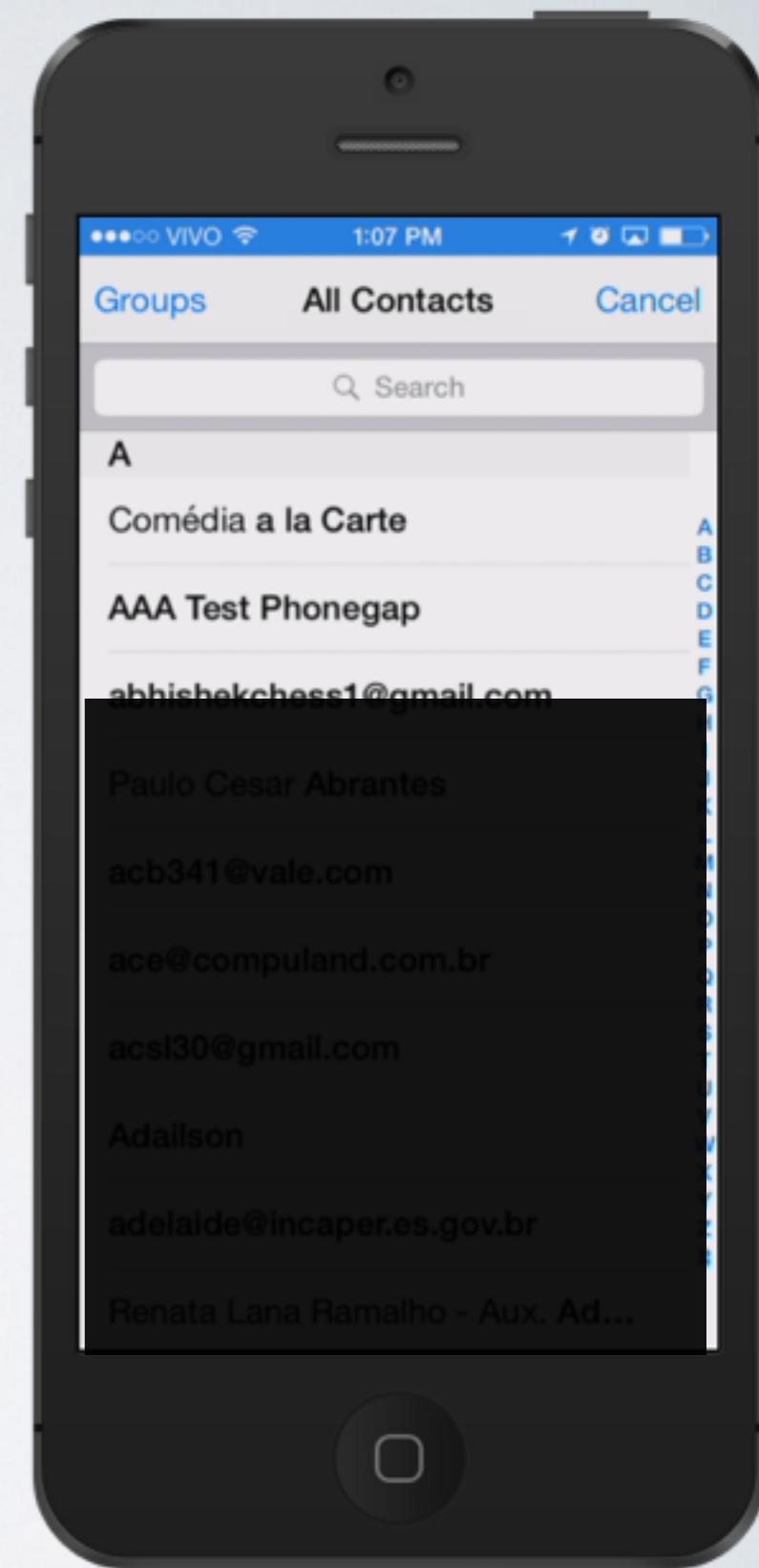
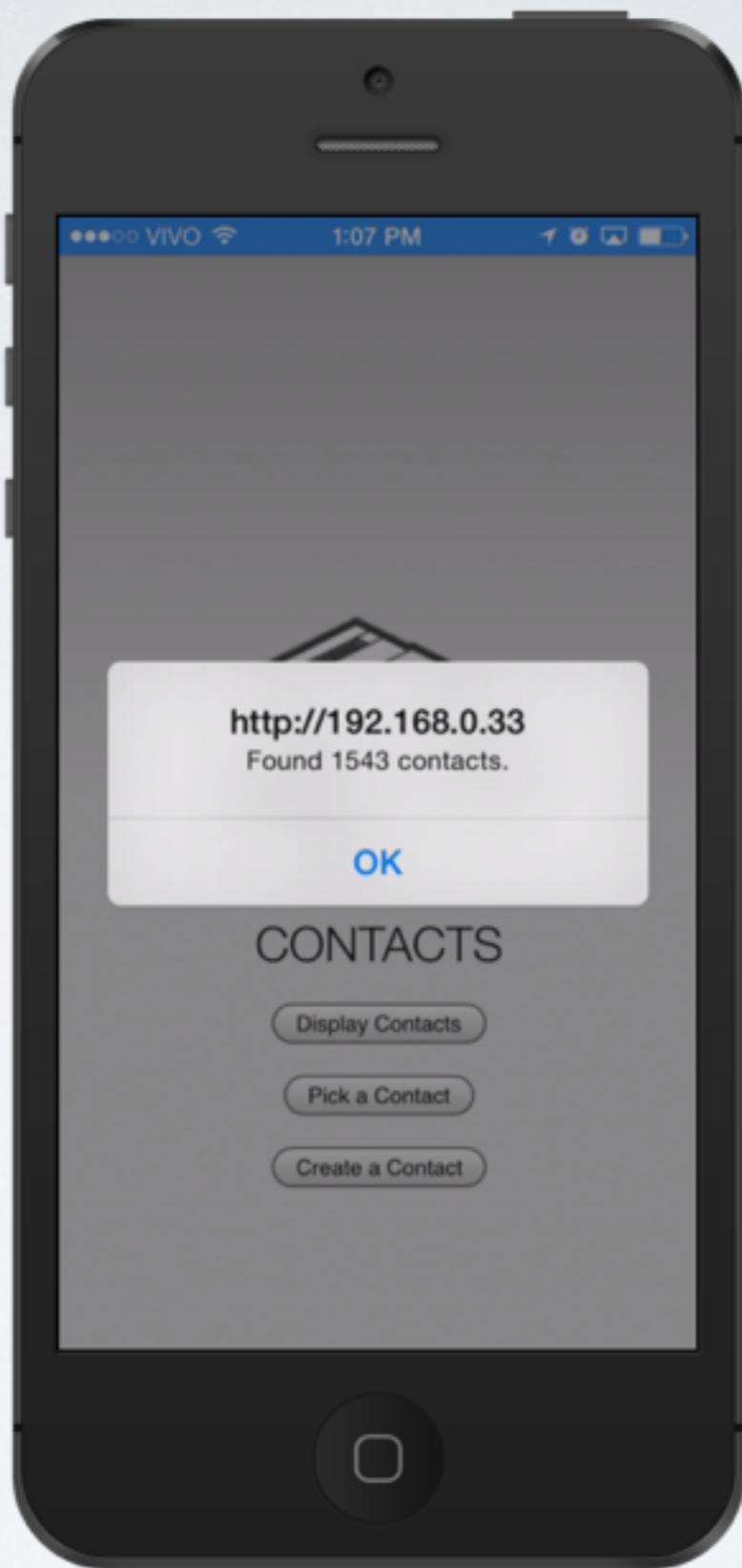
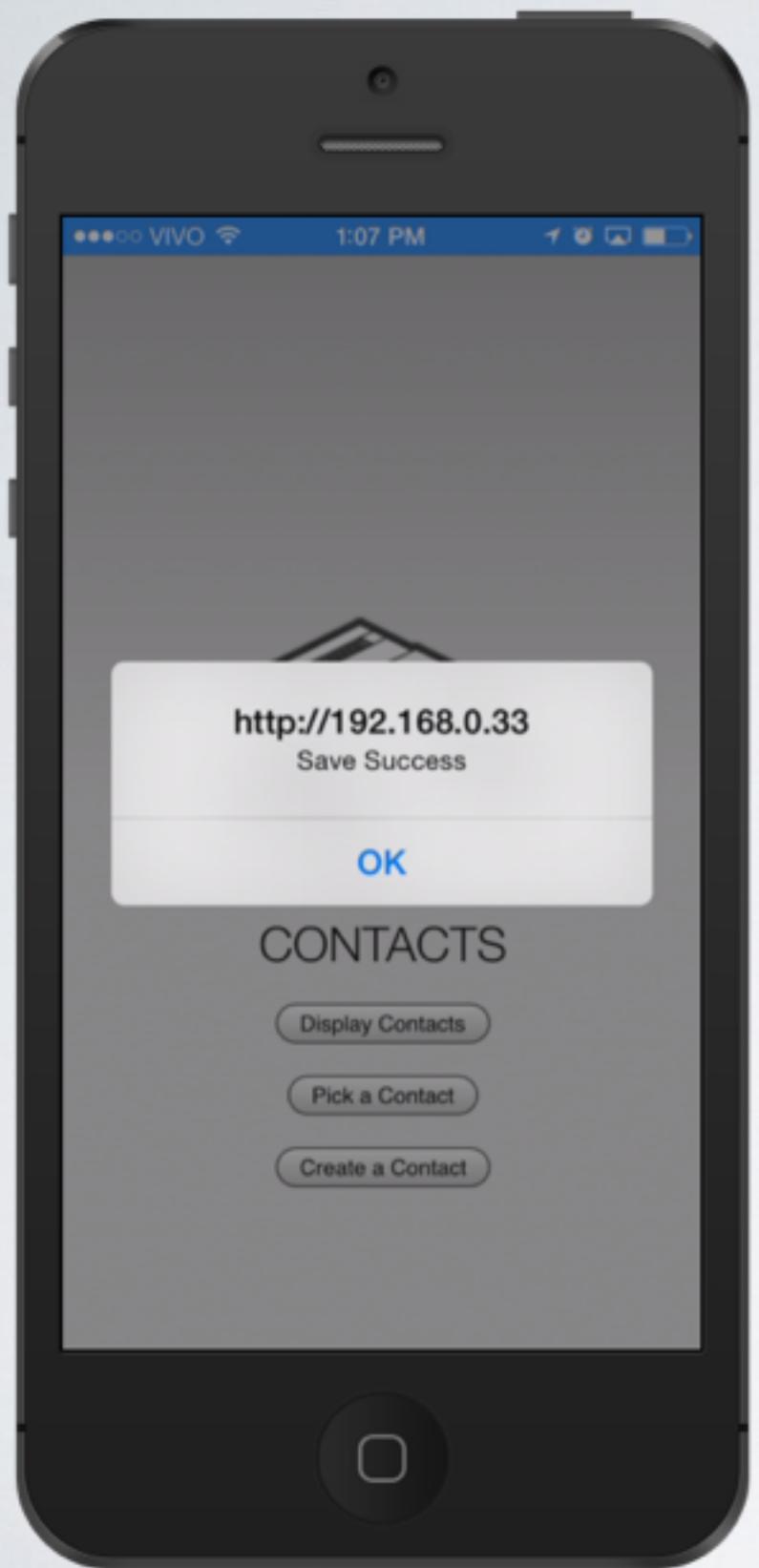
```
listContacts: function(){  
  
    function onSuccess(contacts) {  
        alert('Found ' + contacts.length + ' contacts.' );  
    }  
  
    function onError(contactError) {  
        alert('onError!');  
    }  
  
    var options = new ContactFindOptions();  
    options.multiple = true;  
    options.desiredFields = [navigator.contacts.fieldType.id];  
    var fields = [navigator.contacts.fieldType.displayName, navigator.contacts.fieldType.name];  
  
    navigator.contacts.find(fields, onSuccess, onError, options);  
}
```



```
pickContact: function(){
    navigator.contacts.pickContact(function(contact){
        alert('The following contact has been selected:' + JSON.stringify(contact));
    },function(err){
        console.log('Error: ' + err);
    });
}
```



```
createContact: function(){  
    var myContact = navigator.contacts.create({  
        "displayName": "AAA Test Phonegap"  
    });  
  
    if (myContact){  
        myContact.save(onSuccess,onError);  
    }  
  
    function onSuccess(contact) {  
        alert("Save Success");  
    }  
  
    function onError(contactError) {  
        alert("Error = " + contactError.code);  
    }  
}
```



Device





```
phonegap plugin add org.apache.cordova.device
```

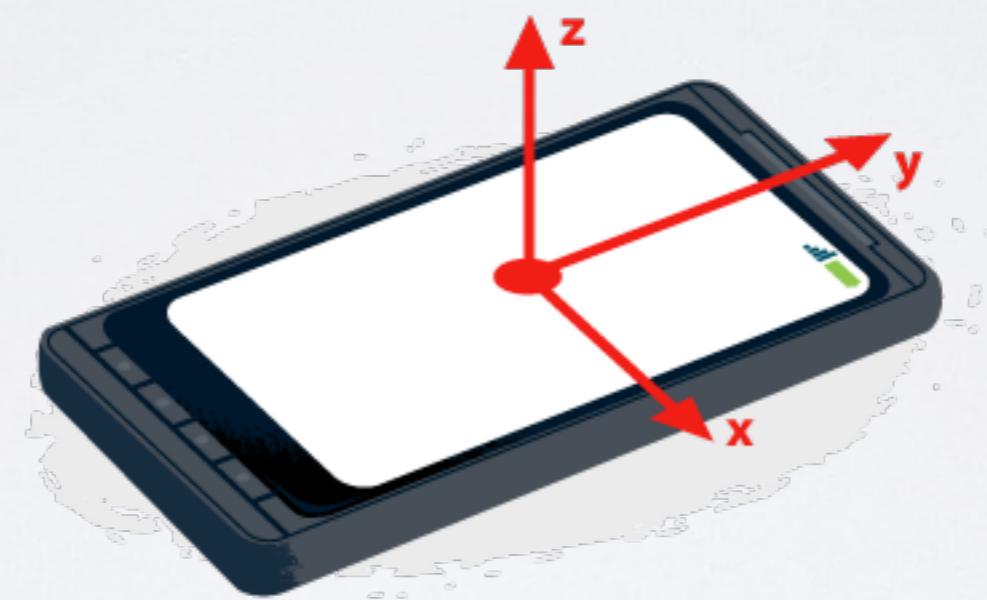


```
cordova plugin add org.apache.cordova.device
```

```
onDeviceReady: function() {  
  
    document.getElementById("cordova").innerHTML = device.cordova;  
    document.getElementById("model").innerHTML = device.model;  
    document.getElementById("platform").innerHTML = device.platform;  
    document.getElementById("uuid").innerHTML = device.uuid;  
    document.getElementById("version").innerHTML = device.version;  
}  
};
```



Device Motion (Accelerometer)



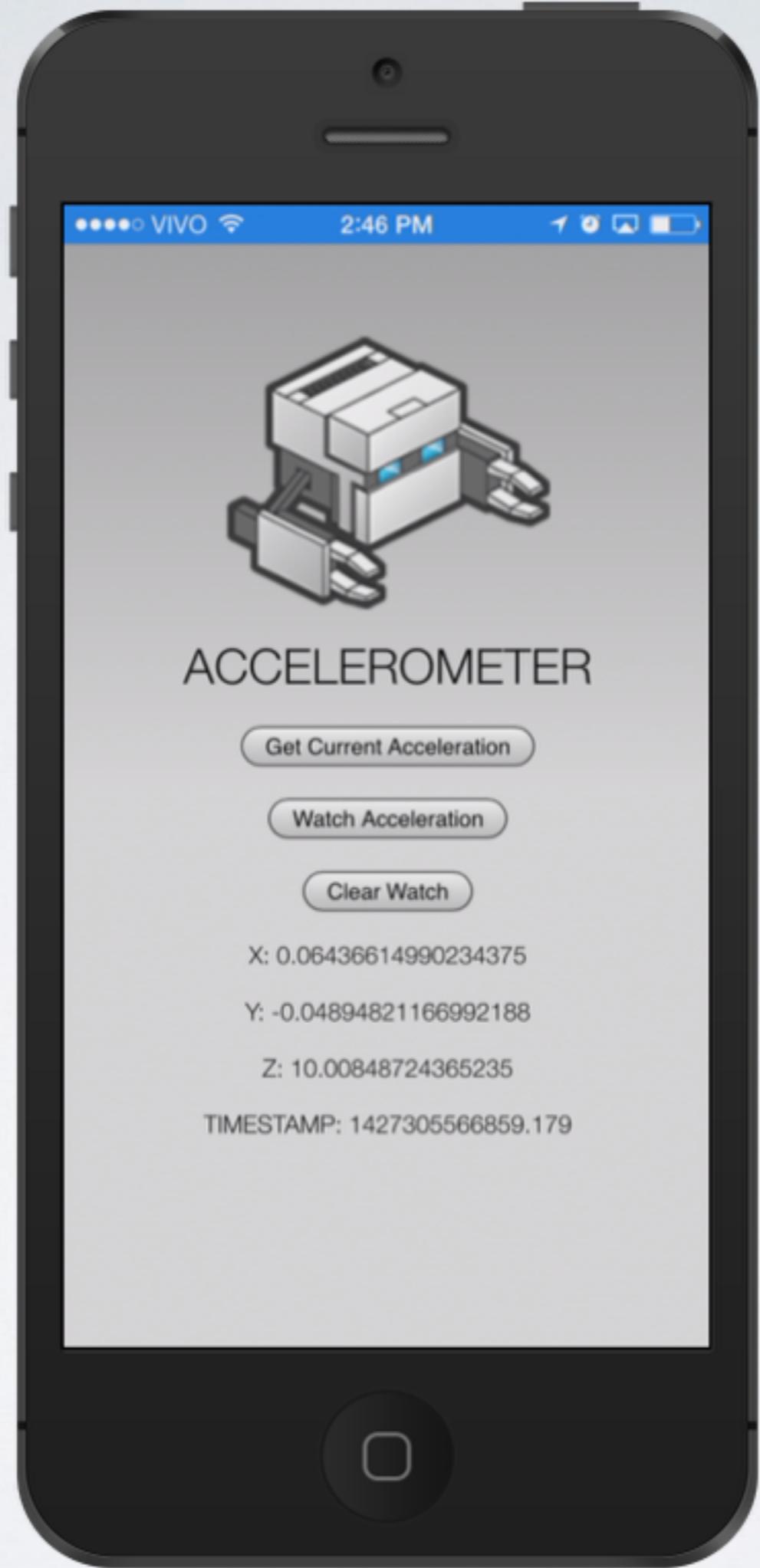


```
phonegap plugin add org.apache.cordova.device-motion
```



```
cordova plugin add org.apache.cordova.device-motion
```

```
getCurrentAcceleration: function(){
    function onSuccess(acceleration) {
        document.getElementById("x").innerHTML = acceleration.x;
        document.getElementById("y").innerHTML = acceleration.y;
        document.getElementById("z").innerHTML = acceleration.z ;
        document.getElementById("timestamp").innerHTML = acceleration.timestamp ;
    }
    function onError() {
        alert('onError!');
    }
    navigator.accelerometer.getCurrentAcceleration(onSuccess, onError);
}
```



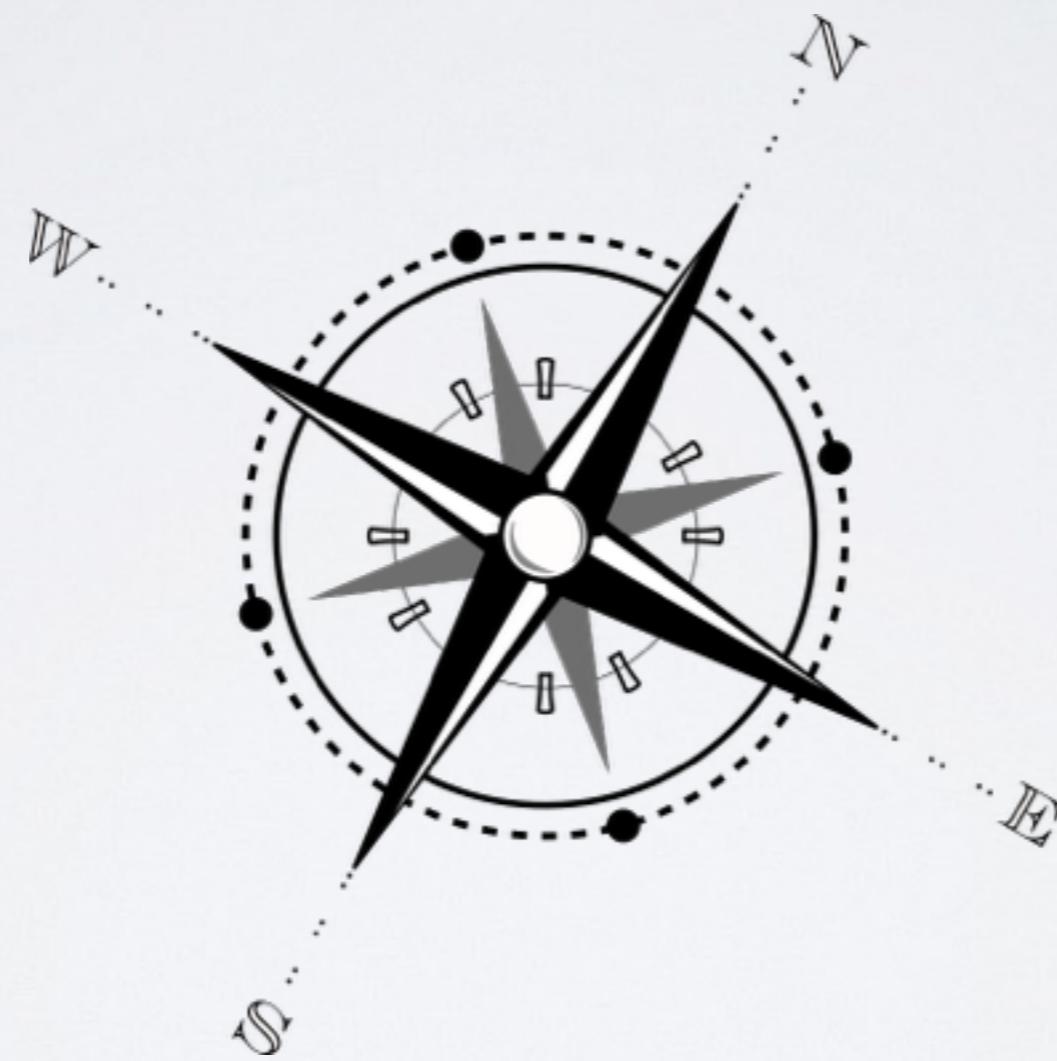
```
watchAcceleration: function(){
    function onSuccess(acceleration) {
        document.getElementById("x").innerHTML = acceleration.x;
        document.getElementById("y").innerHTML = acceleration.y;
        document.getElementById("z").innerHTML = acceleration.z ;
        document.getElementById("timestamp").innerHTML = acceleration.timestamp ;
    }

    function onError() {
        alert('onError!');
    }

    var options = { frequency: 3000 }; // Update every 3 seconds
    app.watchID = navigator.accelerometer.watchAcceleration(onSuccess, onError, options);
}

clearWatch: function(){
    if (app.watchID){
        navigator.accelerometer.clearWatch(app.watchID);
    }
}
```

Device Orientation (Compass)





```
phonegap plugin add org.apache.cordova.device-orientation
```

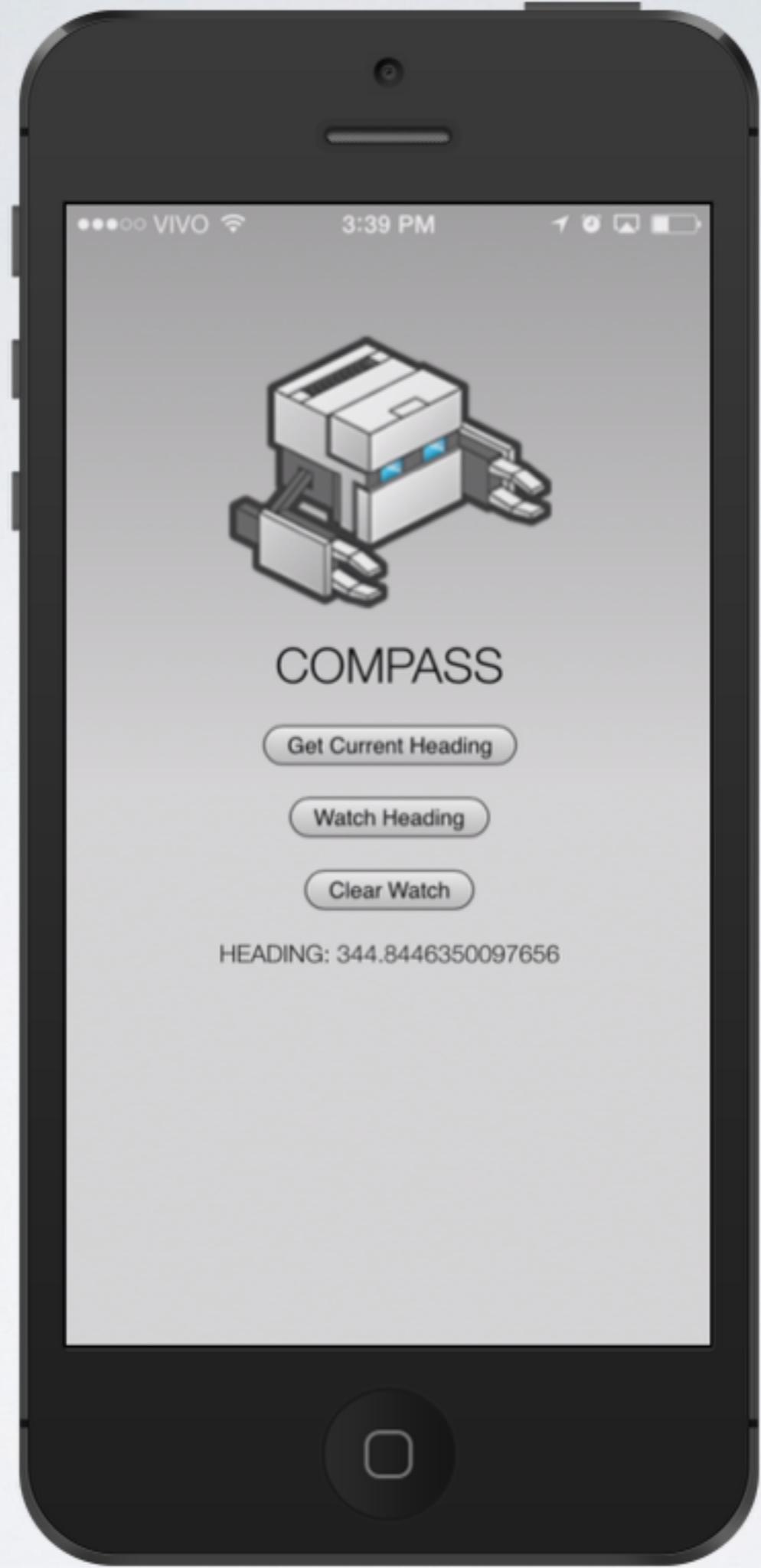


```
cordova plugin add org.apache.cordova.device-orientation
```

```
getCurrentHeading: function(){
    function onSuccess(heading) {
        document.getElementById("magneticHeading").innerHTML = heading.magneticHeading;
    }

    function onError(error) {
        alert('CompassError: ' + error.code);
    }

    navigator.compass.getCurrentHeading(onSuccess, onError);
}
```



```
watchHeading: function(){

    function onSuccess(heading) {
        document.getElementById("magneticHeading").innerHTML = heading.magneticHeading;
    }

    function onError(error) {
        alert('CompassError: ' + error.code);
    }

    var options = {
        frequency: 3000
    }; // Update every 3 seconds

    app.watchID = navigator.compass.watchHeading(onSuccess, onError, options);
}

clearWatch: function(){

    if (app.watchID){
        navigator.compass.clearWatch(app.watchID);
    }
}
```

Dialogs





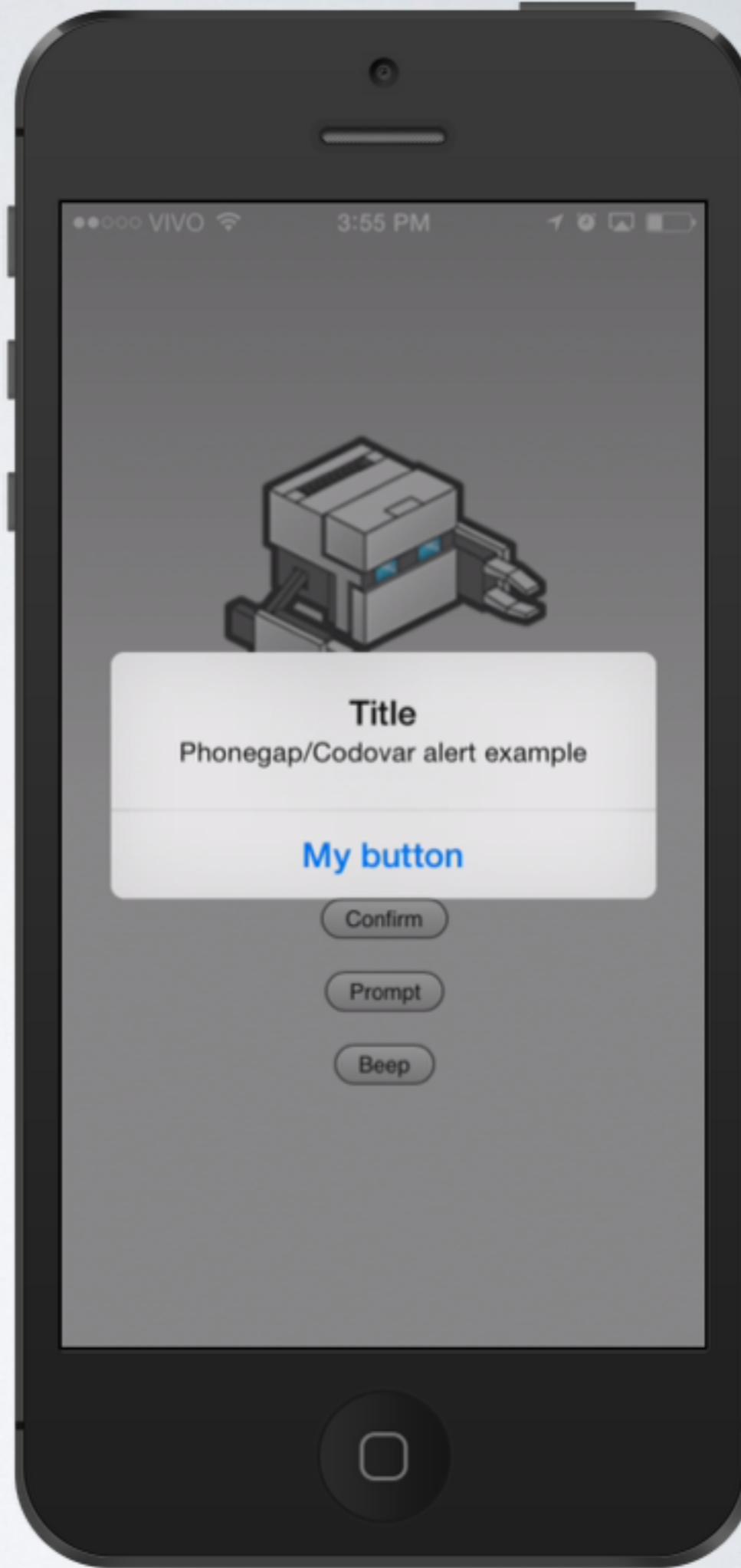
```
phonegap plugin add org.apache.cordova.dialogs
```

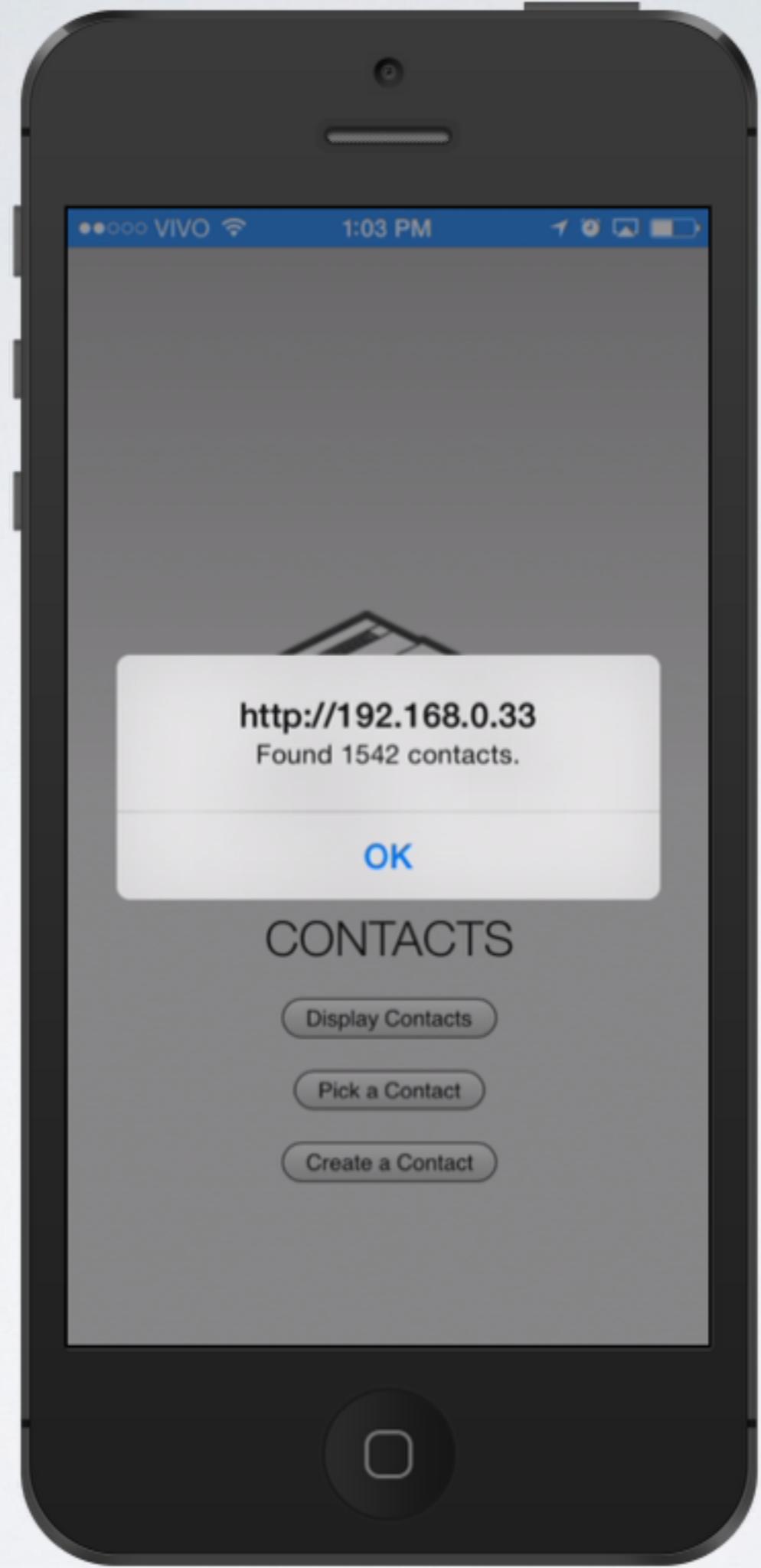


```
cordova plugin add org.apache.cordova.dialogs
```

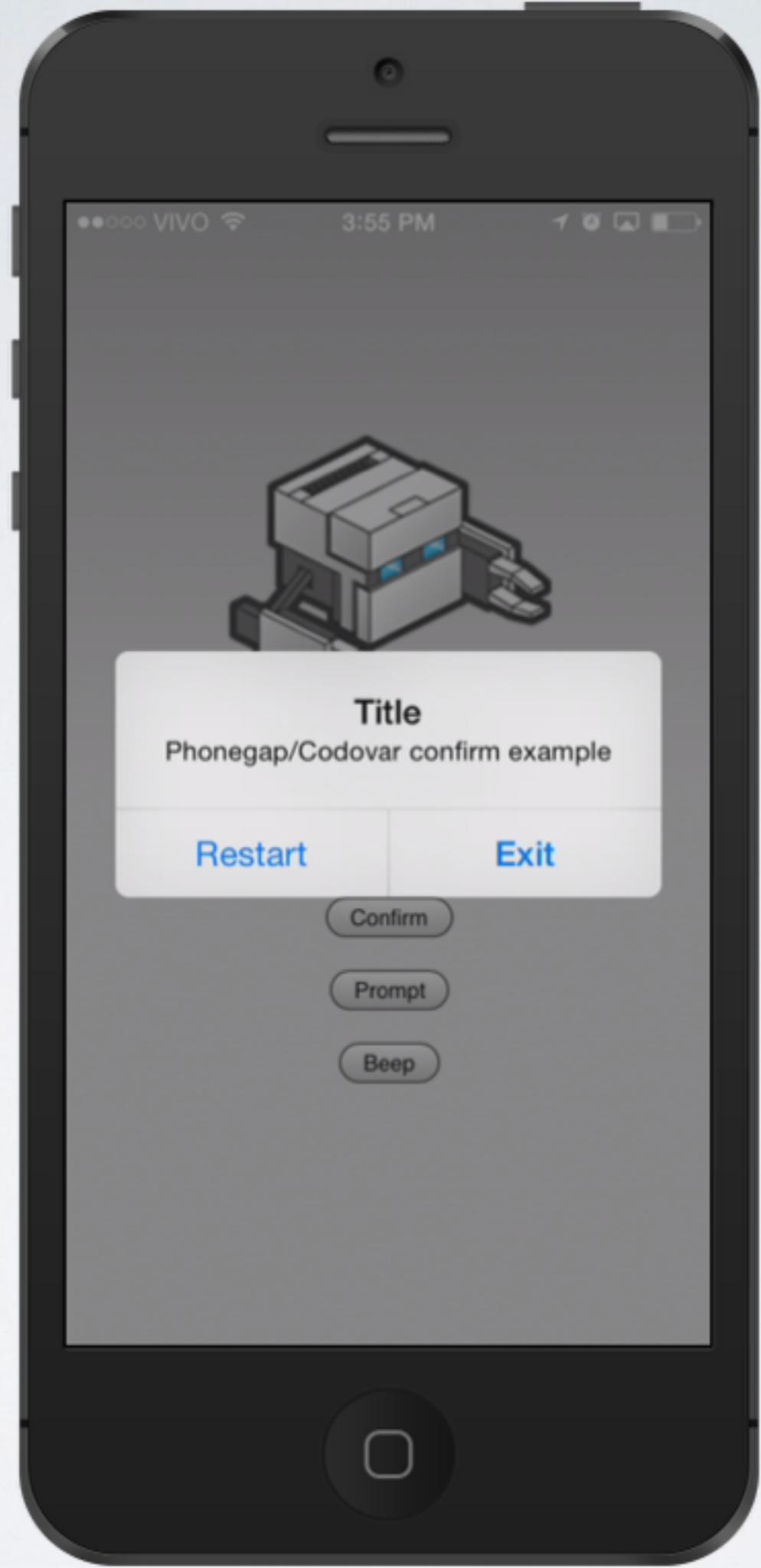
```
alert: function() {
    function alertDismissed() {
        alert('user closed the alert');
    }
}

navigator.notification.alert(
    'Phonegap/Codovar alert example', // message
    alertDismissed,                // callback
    'Title',                      // title
    'My button'                   // buttonName
);
}
```

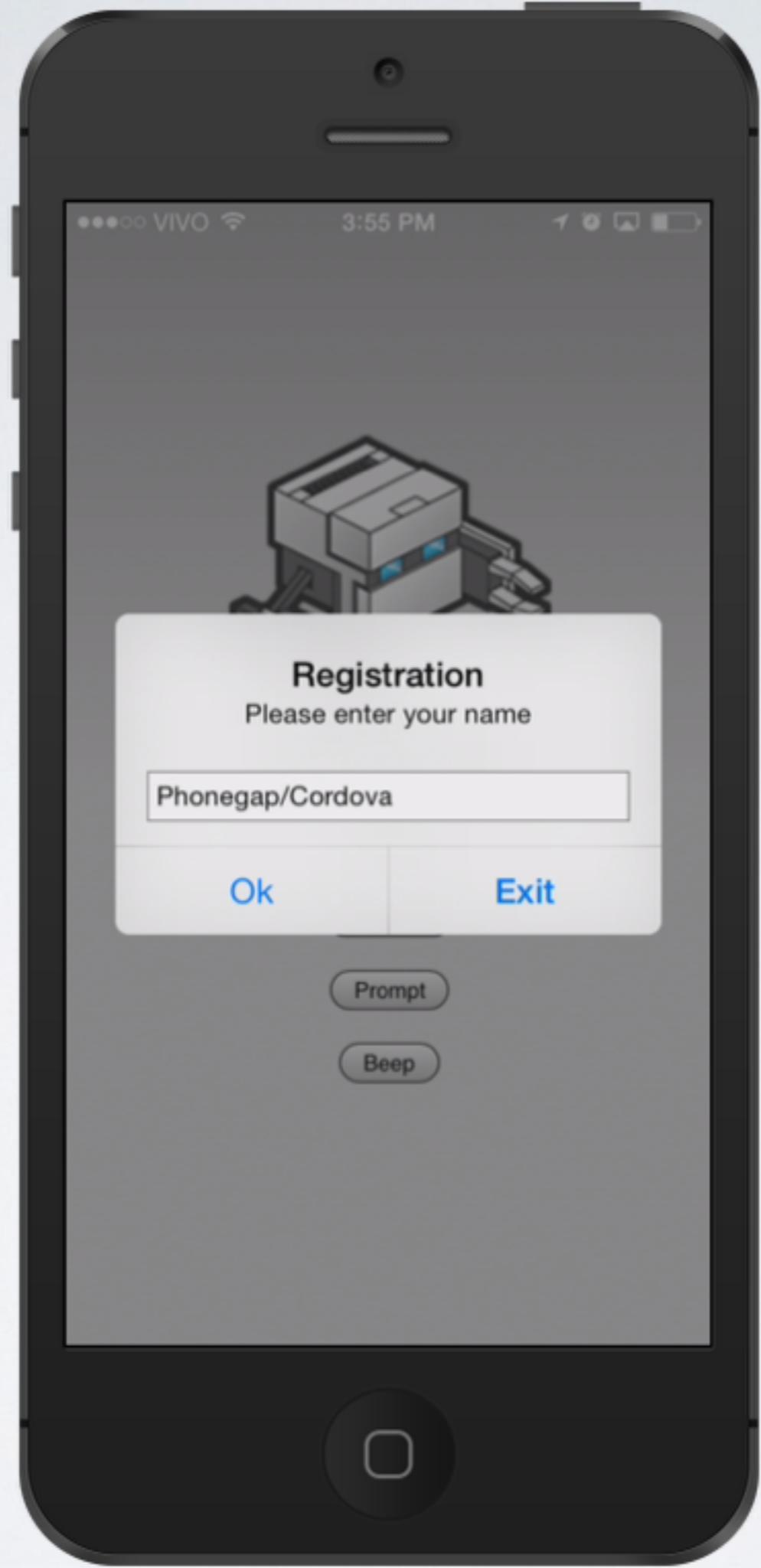




```
confirm: function() {  
  
    function onConfirm(buttonIndex) {  
        alert('You selected button ' + buttonIndex);  
    }  
  
    navigator.notification.confirm(  
        'Phonegap/Cordova confirm example', // message  
        onConfirm,                         // callback to invoke with index of button  
        pressed                           // pressed  
        'Title',                          // title  
        ['Restart','Exit']                // buttonLabels  
    );  
}
```



```
prompt: function(){  
  
    function onPrompt(results) {  
        alert("You selected button number " + results.buttonIndex + " and entered "  
+ results.input1);  
    }  
  
    navigator.notification.prompt(  
        'Please enter your name', // message  
        onPrompt,                // callback to invoke  
        'Registration',         // title  
        ['Ok','Exit'],           // buttonLabels  
        'Phonegap/Cordova'     // defaultText  
    );  
}
```



```
beep: function(){
    navigator.notification.beep(3);
}
```

Plugins úteis:

- Push: <https://github.com/phonegap-build/PushPlugin>
- BarCode Scanner: <https://github.com/brodysoft/Cordova-SQLitePlugin>
- SQLite nativo: <https://github.com/wildabeast/BarcodeScanner>

localhost:4400/?enableripple=cordova-3.0.0-iPhone3

beta Ripple

Devices

iPhone 3G/3Gs

Orientation

Platforms

Information

HelloWorld

Version: 1.0.0

Platform: Apache Cordova

Device: iPhone 3G/3Gs

OS: iPhone 3

Manufacturer: Apple

Screen: 320x480

Density: 163 PPI

User Agent: Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/420.1 (KHTML, like Gecko) Version/3.0 Mobile/1A542a Safari/419.3

Accelerometer

Battery Status

Settings

Device & Network Settings

Geo Location

Config

Events

PHONEGAP

DEVICE IS READY

Loiane

The screenshot shows the Ripple Mobile Environment Emulator interface. At the top, there's a browser-like header with tabs for 'localhost:4400/?enableripple' and 'localhost:4400/?enableripple=cordova-3.0.0-iPhone3'. The main window has several panels: 'Devices' (listing 'iPhone 3G/3Gs'), 'Orientation' (with icons for portrait and landscape), 'Platforms' (with a '+' icon), 'Information' (detailed device and user agent info), 'Accelerometer' (with a '+' icon), and 'Battery Status' (with a '+' icon). On the right, there's a vertical sidebar with 'Settings' (including 'Device & Network Settings', 'Geo Location', 'Config', and 'Events') and a large 'Ripple' logo. The central area displays a PhoneGap 'DEVICE IS READY' screen with a 3D cube icon.



```
npm install -g ripple-emulator
```



```
ripple emulate
```

Trabalhando com Views

HTML



JS



CSS



Full Stack

 **jQuery**
mobile framework.

 **Sencha**
dōjō

Topcoat



Bootstrap



ionic

 **BACKBONE.JS**

 ***Knockout.***



 **ANGULARJS**
by Google

zepto.js



 **jQuery**
write less, do more.

UI

Architecture

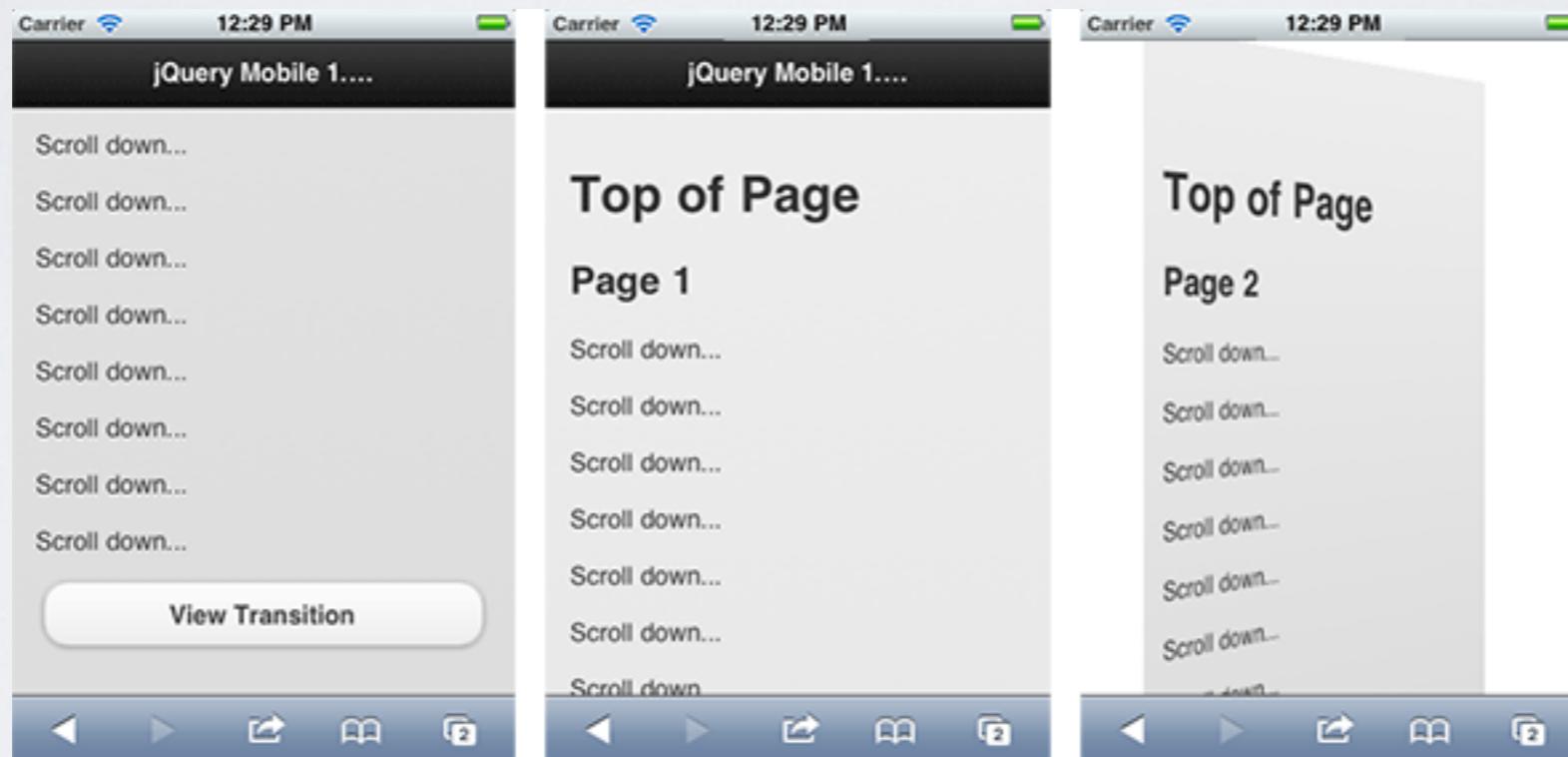
DOM



Mobile First



Navegação Ajax e Transitions



Desenvolvimento UI: Declarativo

```
<!DOCTYPE html>
<html>
<head>
    <title>JQuery Mobile - Olá Mundo</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.js"></script>
</head>

<body>

    <div data-role="page">
        <div data-role="header">
            <h1>Título da Página</h1>
        </div><!-- /header -->

        <div role="main" class="ui-content">
            <p>Conteúdo da Página</p>
        </div><!-- /conteúdo -->

        <div data-role="footer">
            <h4>Rodapé</h4>
        </div><!-- /footer -->
    </div><!-- /page -->

</body>
</html>
```

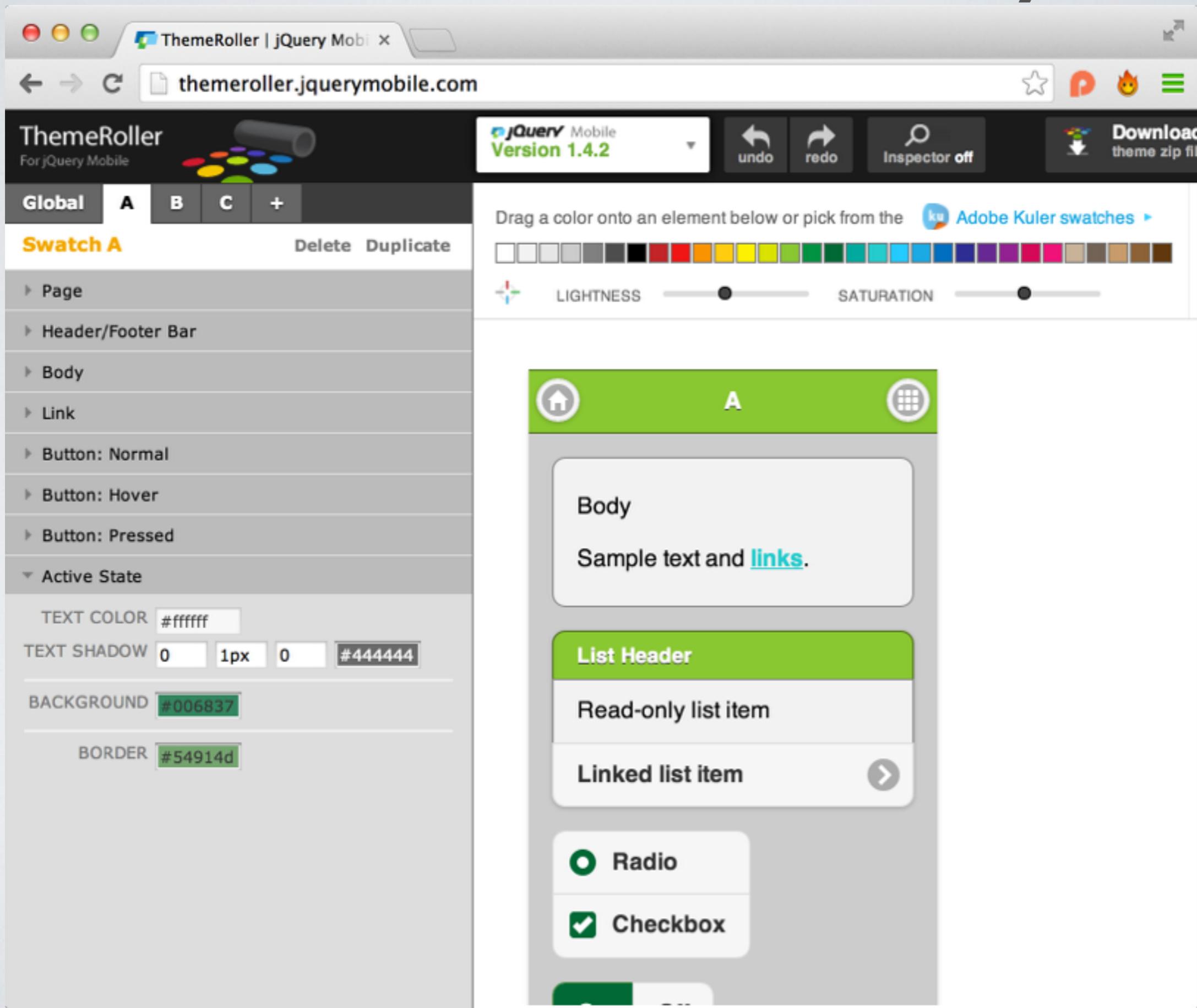
Widgets

The image displays three separate mobile application screens, labeled A, B, and C, arranged horizontally. Each screen has a light gray header bar with a home icon and a grid icon. The main content area contains the following components:

- Text:** "Sample text and [links](#)".
- List Header:** A section containing three items:
 - Radio 1**: Represented by a blue radio button with a white circle.
 - Radio 2**: Represented by a gray radio button with a white circle.
 - Checkbox**: Represented by a blue checkbox with a checked state.
- On/Off Switch:** A switch with two states: "On" (blue) and "Off" (white).
- Option Selection:** A button with the text "Option 1" and a downward arrow icon.
- Text Input:** A text input field.
- Number Input:** A numeric input field with a value of "0" and up/down arrow buttons.
- Button:** A button with a star icon and the text "Button".

The components are identical across all three screens (A, B, and C), except for the state of the "Radio 1" and "Checkbox" items, which are checked in screen C and unchecked in screens A and B.

Fácil customização de layout



A screenshot of a mobile web browser window. The title bar says "Título da Página". The address bar shows the URL "localhost/furb/JQueryMobileHelloWorld/". The main content area displays a list of car brands: Acura, Audi, BMW, Cadillac, and Ferrari, each separated by a horizontal line. At the bottom of the page, the word "Rodapé" is centered.

Título da Página

localhost/furb/JQueryMobileHelloWorld/

Acura

Audi

BMW

Cadillac

Ferrari

Rodapé

```
<!DOCTYPE html>
<html>
<head>
    <title>JQuery Mobile - Olá Mundo</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.js"></script>
</head>

<body>
    ...conteúdo da sua app aqui...
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>JQuery Mobile - Olá Mundo</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.js"></script>
</head>

<body>

    <div data-role="page">
        <div data-role="header">
            <h1>Título da Página</h1>
        </div><!-- /header -->

        <div role="main" class="ui-content">
            <p>Conteúdo da Página</p>
        </div><!-- /conteúdo -->

        <div data-role="footer">
            <h4>Rodapé</h4>
        </div><!-- /footer -->
    </div><!-- /page -->

</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>JQuery Mobile - Olá Mundo</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.css" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.2/jquery.mobile-1.4.2.min.js"></script>
</head>

<body>

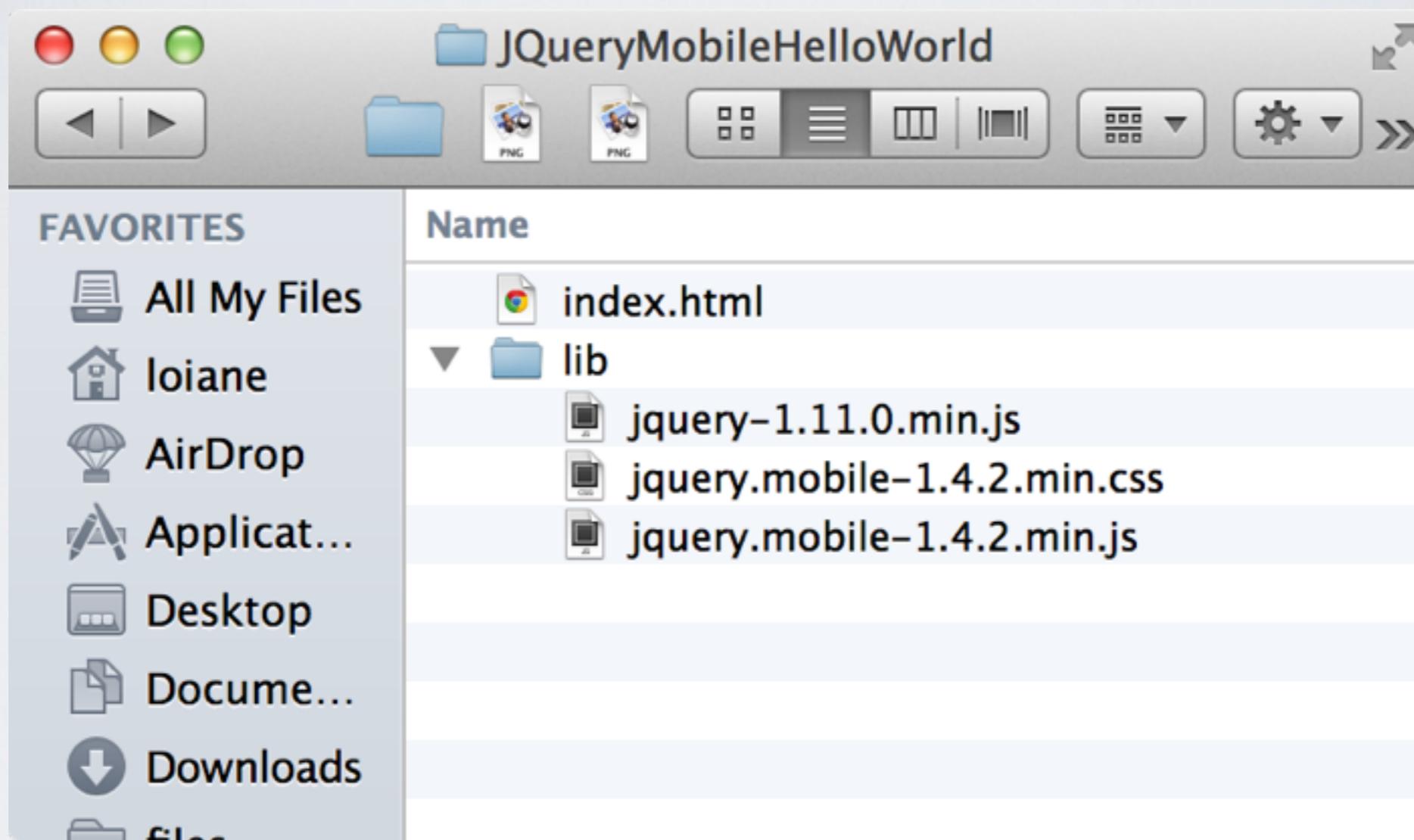
    <div data-role="page">
        <div data-role="header">
            <h1>Título da Página</h1>
        </div><!-- /header -->

        <div role="main" class="ui-content">
            <ul data-role="listview">
                <li>Acura</li>
                <li>Audi</li>
                <li>BMW</li>
                <li>Cadillac</li>
                <li>Ferrari</li>
            </ul>
        </div><!-- /conteúdo -->

        <div data-role="footer">
            <h4>Rodapé</h4>
        </div><!-- /footer -->
    </div><!-- /page -->

</body>
</html>
```

Estrutura do Projeto





Sencha

App First

Widgets

Lists

- Nested, Grouped, Sortable

Carousel

Picker

Overlay

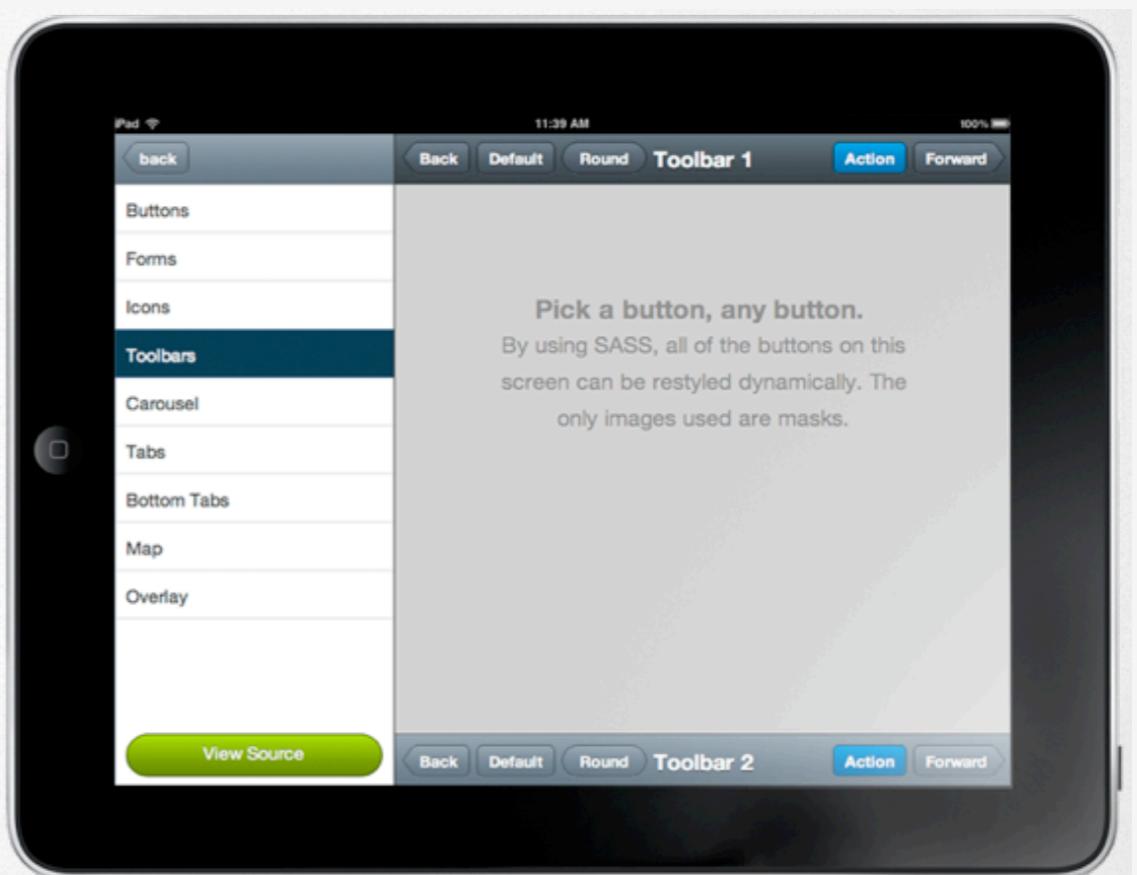
Slider

Forms & fields Toolbars & buttons HTML5

- Audio

- Video

- GeoLocation

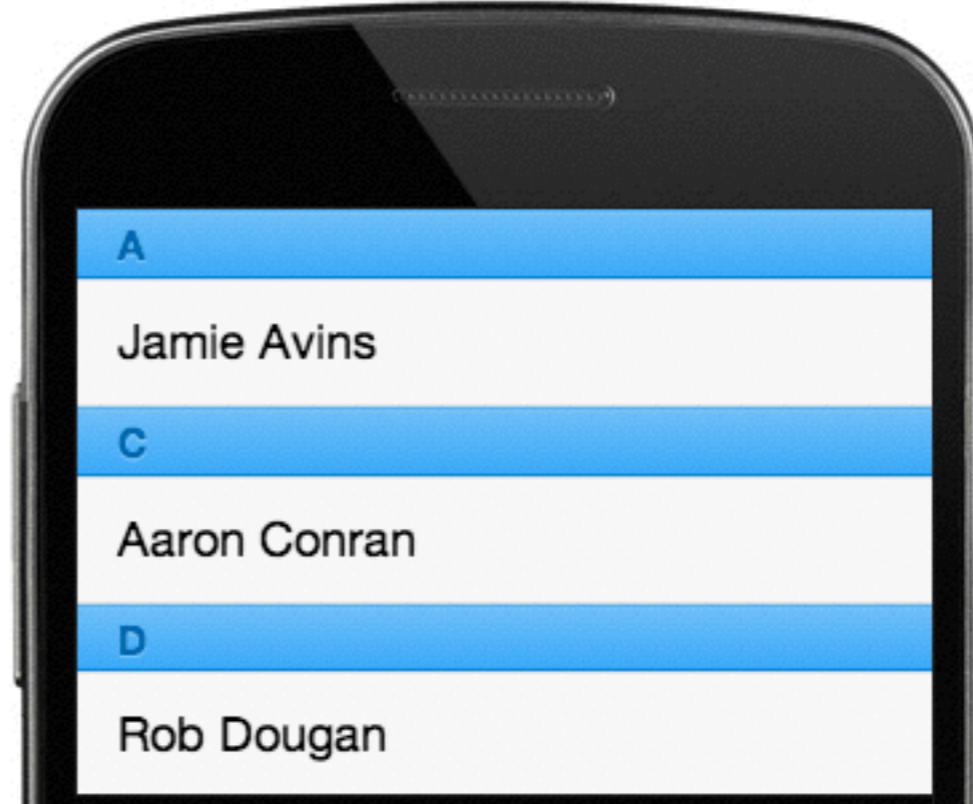


```

Ext.define('Contact', {
    extend: 'Ext.data.Model',
    config: {
        fields: ['firstName', 'lastName']
    }
});

var store = Ext.create('Ext.data.Store', {
    model: 'Contact',
    sorters: 'lastName',
    grouper: {
        groupFn: function(record) {
            return record.get('lastName')[0];
        }
    },
    data: [
        { firstName: 'Tommy', lastName: 'Maintz' },
        { firstName: 'Rob', lastName: 'Dougan' },
        { firstName: 'Ed', lastName: 'Spencer' },
        { firstName: 'Jamie', lastName: 'Avins' },
        { firstName: 'Aaron', lastName: 'Conran' },
        { firstName: 'Dave', lastName: 'Kaneda' },
        { firstName: 'Jacky', lastName: 'Nguyen' },
        { firstName: 'Abraham', lastName: 'Elias' },
        { firstName: 'Jay', lastName: 'Robinson' },
        { firstName: 'Nigel', lastName: 'White' },
        { firstName: 'Don', lastName: 'Griffin' },
        { firstName: 'Nico', lastName: 'Ferrero' },
        { firstName: 'Jason', lastName: 'Johnston' }
    ]
});

```



```

Ext.create('Ext.List', {
    fullscreen: true,
    itemTpl: '<div class="contact">{firstName} <strong>{lastName}</strong></div>',
    store: store,
    grouped: true
});

```

Forms

Forms Source

Basic Sliders Toolbars

Personal Info

Name*	Tom Roy		
Password			
Email	me@sencha.com		
Url	http://sencha.com		
Spinner	-	0	+
Cool	✓		
Start Date	03/03/2012		
Rank	Master		
Bio			

Please enter the information above.

Single Thumb



Multiple Thumbs



Toggle



Basic Sliders Toolbars

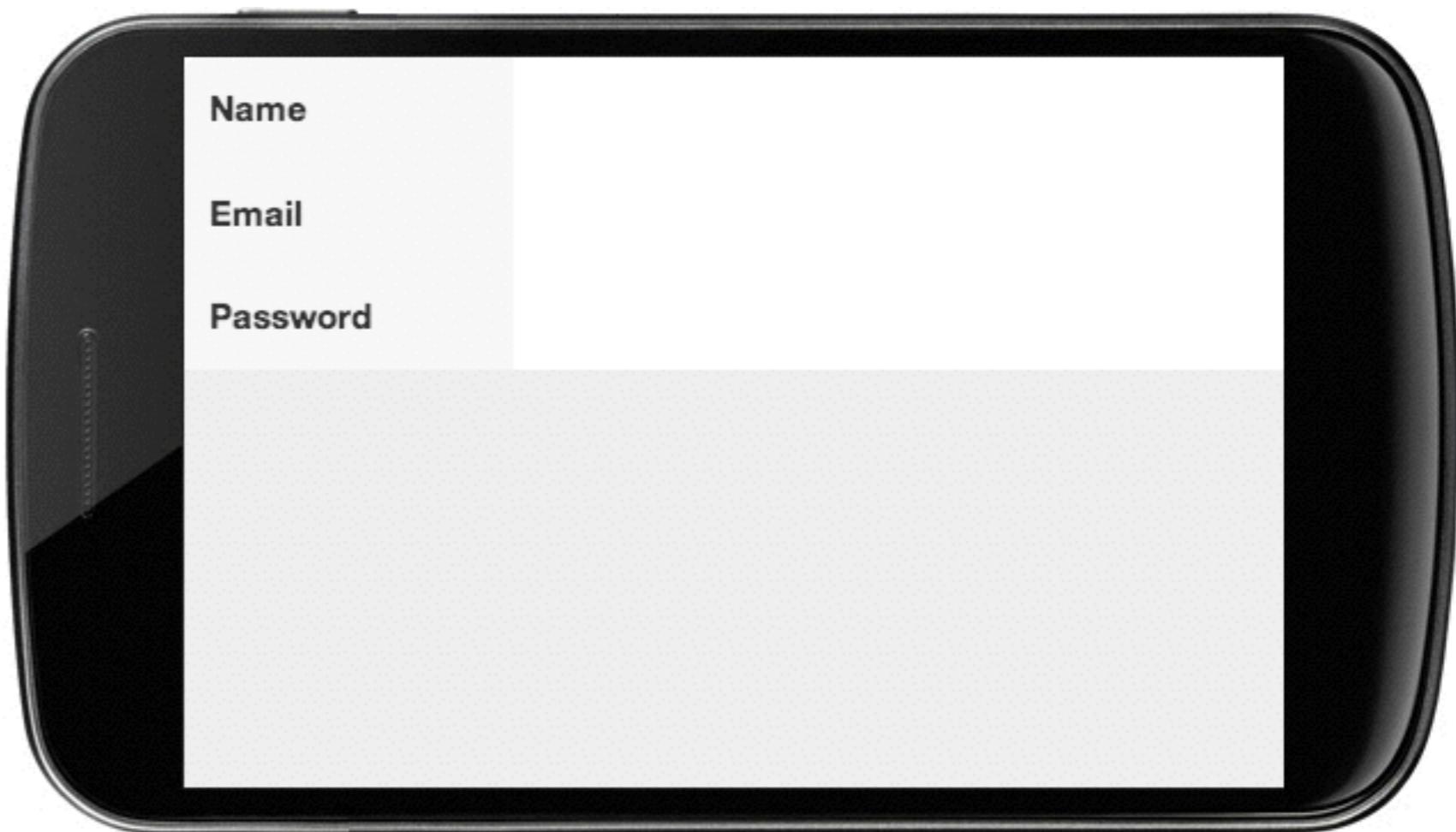
Search

Text

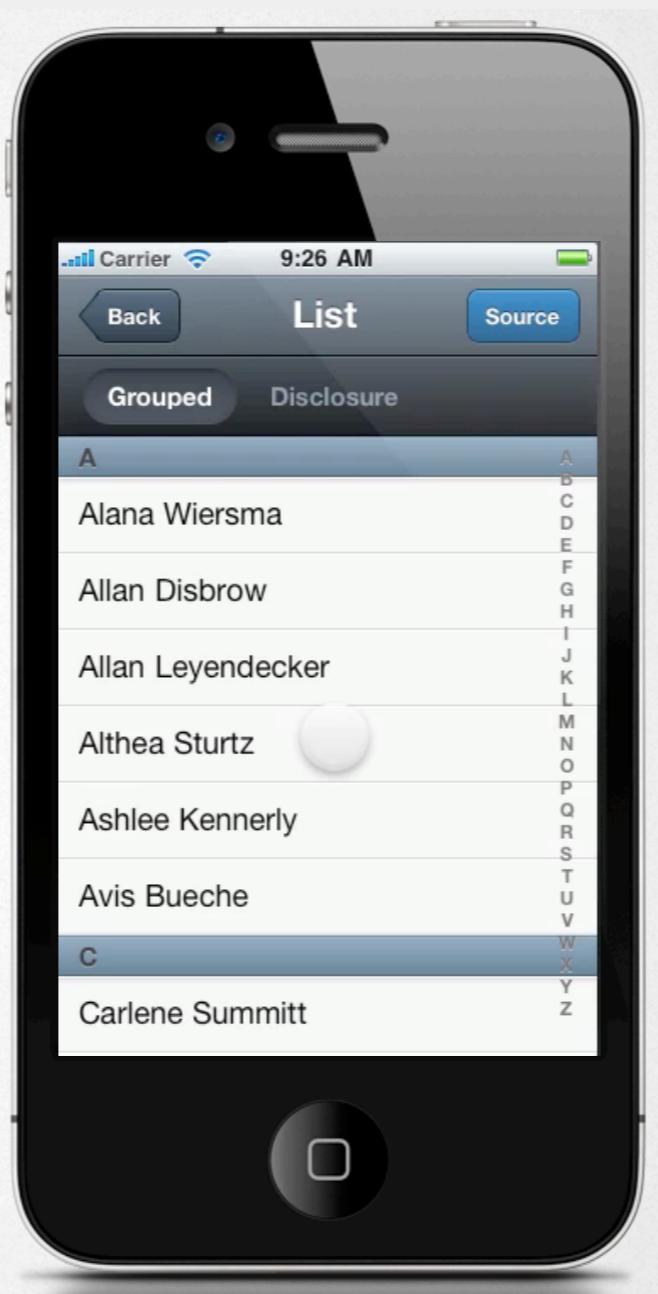
This is just a big select ▾

```
Ext.create('Ext.form.Panel', {  
    fullscreen: true,  
    items: [  
        {  
            xtype: 'textfield',  
            name: 'name',  
            label: 'Name'  
        },  
        {  
            xtype: 'emailfield',  
            name: 'email',  
            label: 'Email'  
        },  
        {  
            xtype: 'passwordfield',  
            name: 'password',  
            label: 'Password'  
        }  
    ]  
});
```

```
form.submit({  
    url: 'url/to/submit/to',  
    method: 'POST',  
    success: function() {  
        alert('form submitted successfully!');  
    }  
});
```



Scrolling



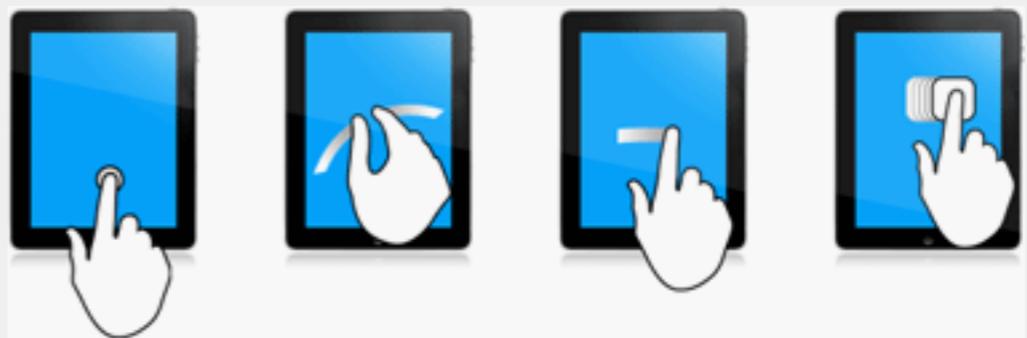
Eventos Touch

Baseado em Eventos Nativos

Abstraído para Performance

Eventos Adicionais:

- Tap
- Double tap
- Tap & hold - Swipe
- Rotate
- Drag & drop



Data Package

Models, Stores, e Proxies

- Associations
- Validation
- Local & server storage

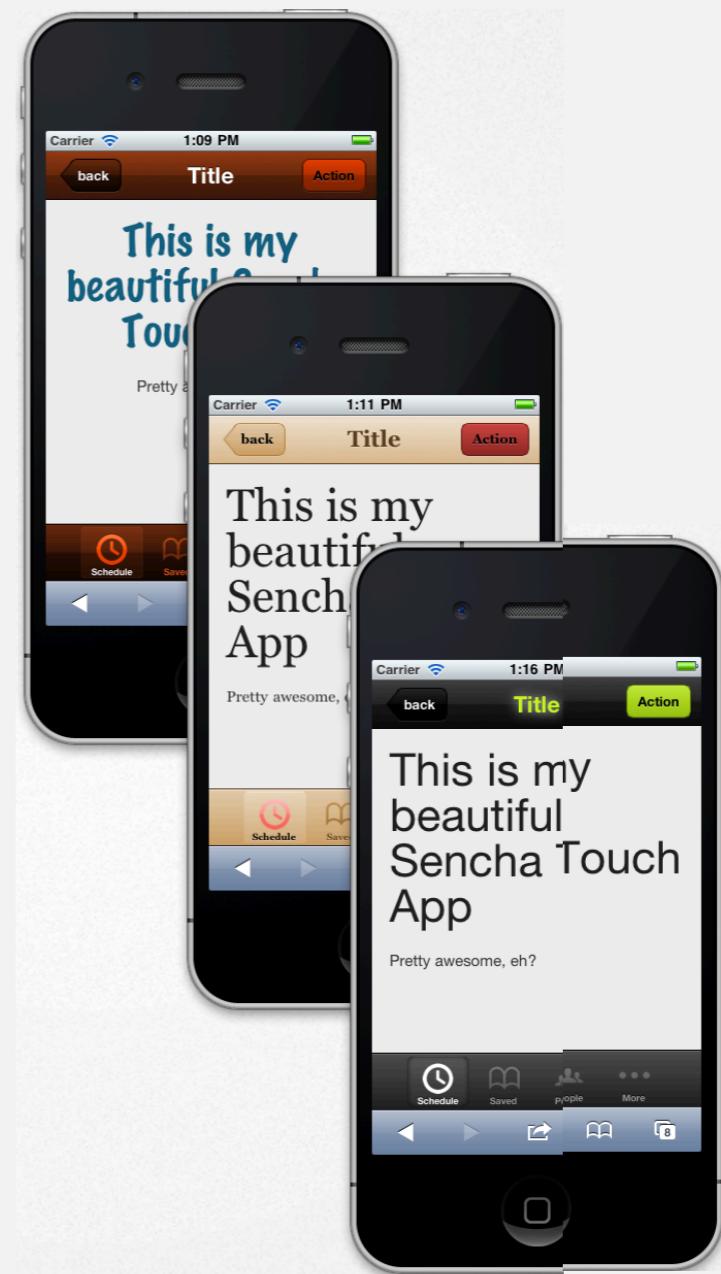
Consumir web services

- JSON/P
- XML
- YQL



Temas

CSS3 com
Sass e Compass



Gráficos

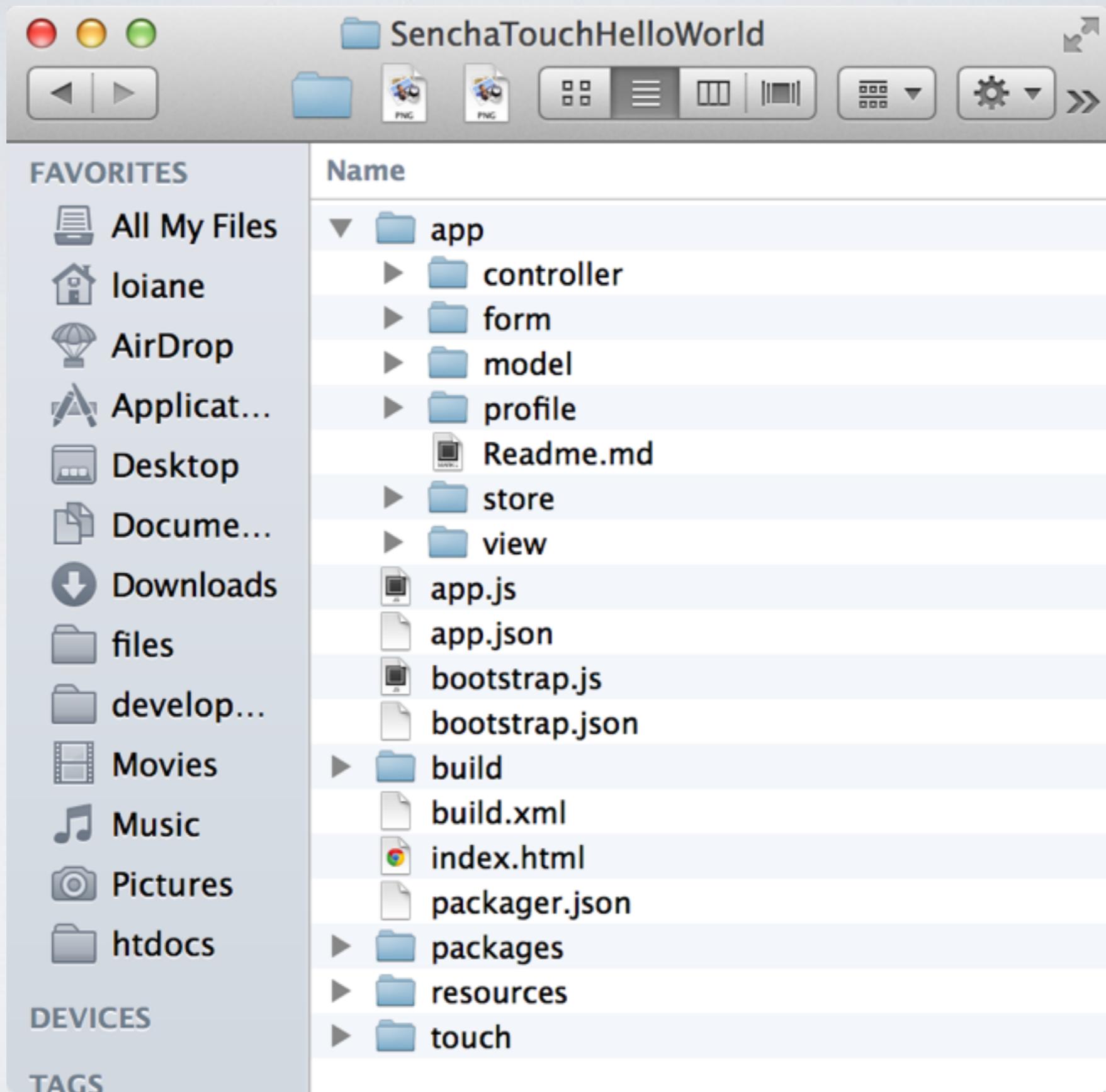
Touch Charts

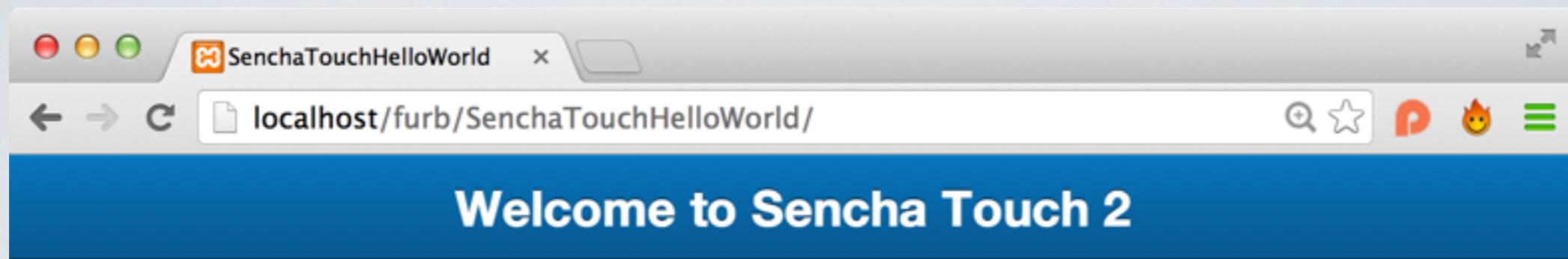




```
$ cd /path/to/sencha-touch-2-sdk  
$ sencha generate app MyApp /path/to/www/myapp
```

```
touch-2.3.0 — java — 80x24
Loiane:~ loiane$ cd /Applications/XAMPP/xamppfiles/htdocs/touch-2.3.0
Loiane:touch-2.3.0 loiane$ sencha generate app SenchaTouchHelloWorld ../furb/Sen
chaTouchHelloWorld
Sencha Cmd v4.0.2.67
[INF]
[INF] init-plugin:
[INF]
[INF] -before-generate-workspace:
[INF]
[INF] cmd-root-plugin.init-properties:
[INF]
[INF] init-properties:
[INF]
[INF] init-sencha-command:
[INF]
[INF] init:
[INF]
[INF] generate-workspace-impl:
[INF]     [echo] generating into /Applications/XAMPP/xamppfiles/htdocs/touch-2.
3.0/..../furb/SenchaTouchHelloWorld from /Users/loiane/bin/Sencha/Cmd/4.0.2.67/tem
plates/workspace
[INF]     [mkdir] Created dir: /Applications/XAMPP/xamppfiles/htdocs/furb/Sencha
TouchHelloWorld/packages
[INF]
```





You've just generated a new Sencha Touch 2 project. What you're looking at right now is the contents of [app/view/Main.js](#) - edit that file and refresh to change what's rendered here.

Criando Views e Componentes Visuais



ionic



ionic

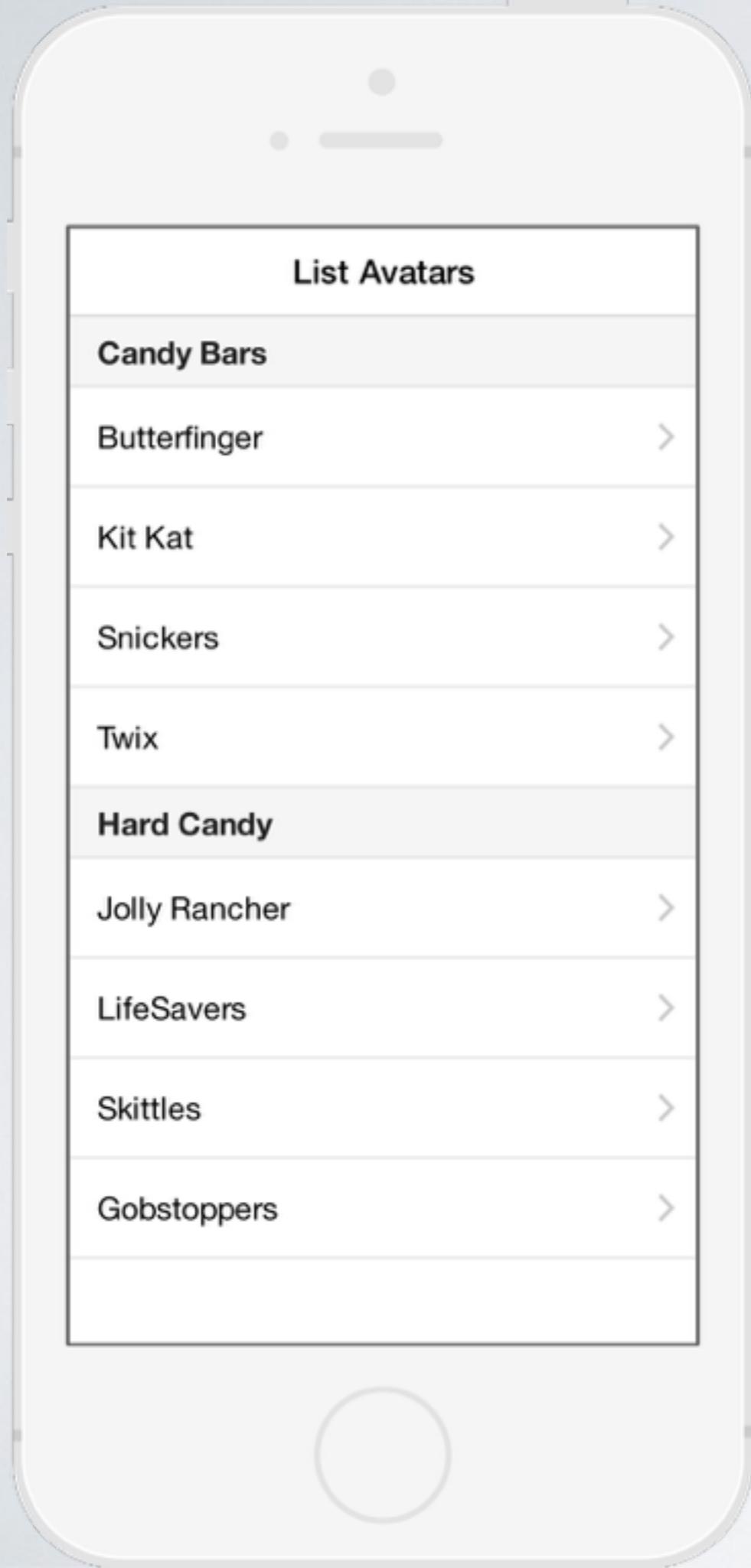
Sass



ANGULARJS
by Google

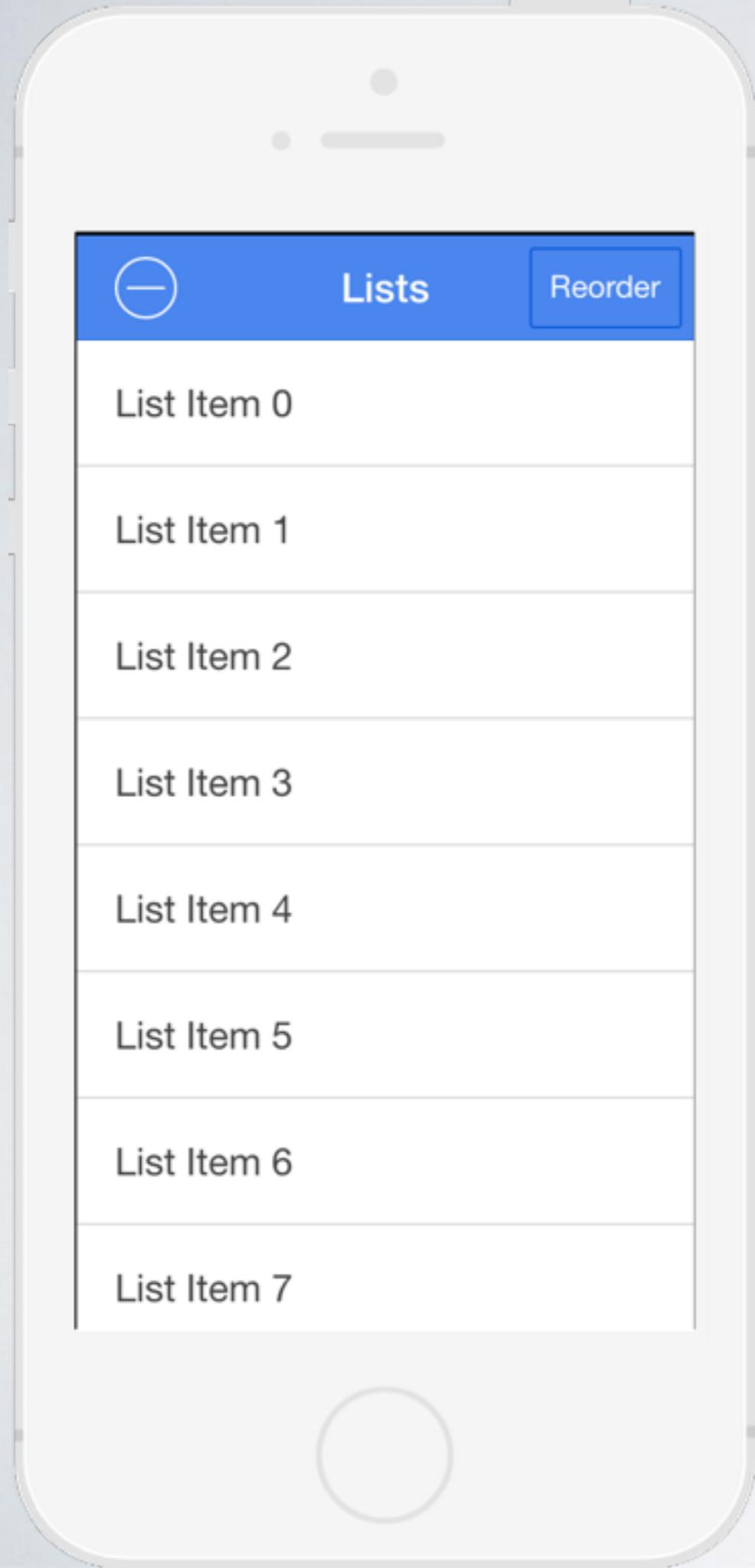


APACHE
CORDOVA™



List

```
<div class="list">  
  
  <div class="item item-divider">  
    Candy Bars  
  </div>  
  
  <a class="item" href="#">  
    Butterfinger  
  </a>  
  
  <a class="item" href="#">  
    Kit Kat  
  </a>  
  
  ...  
  
</div>
```



Complex List

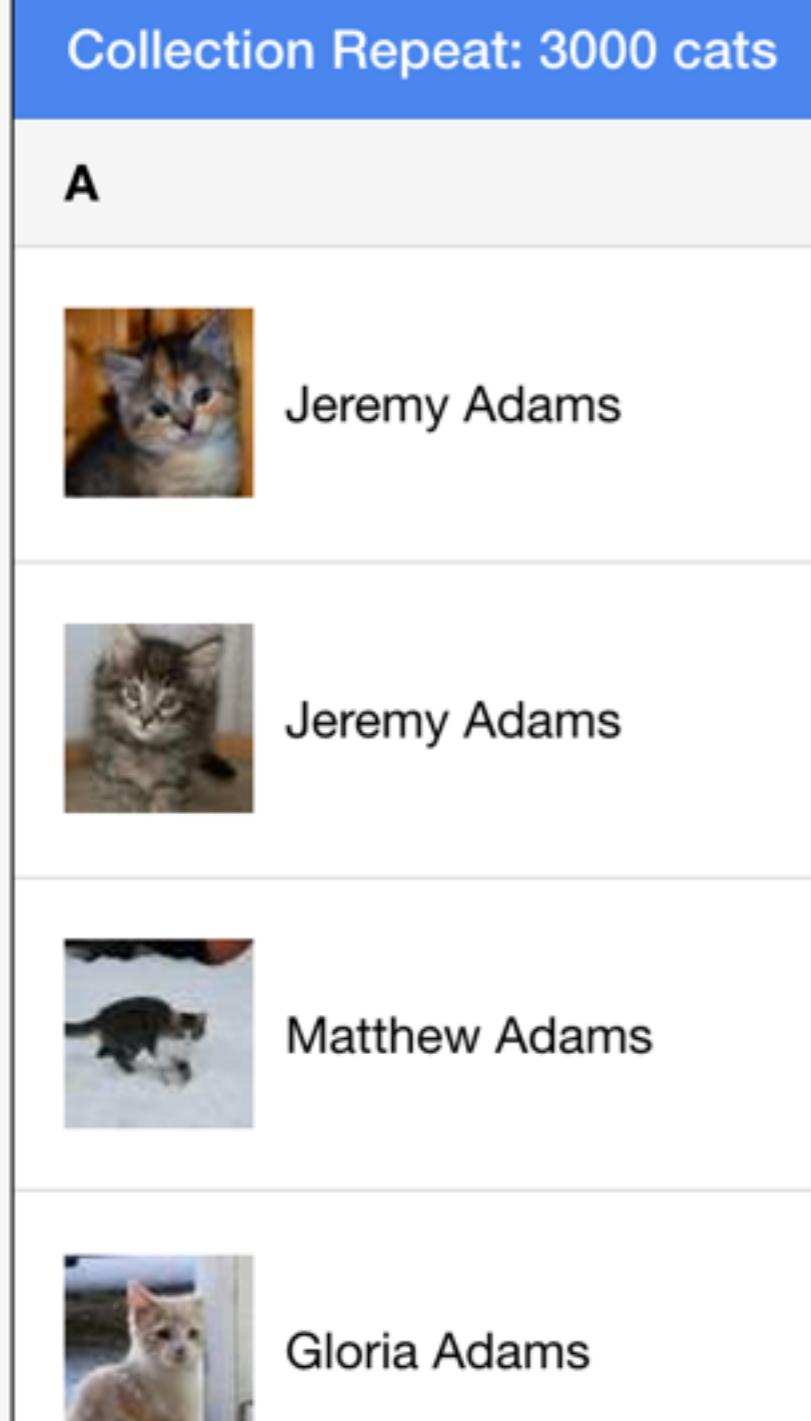
- AngularJS Directive
- Buttons exposed by swiping
- Reorder
- Delete

`<ion-list>`

```
<ion-item ng-repeat="item in items" item="item">
  List Item {{ item.id }}
</ion-item>
```

`</ion-list>`

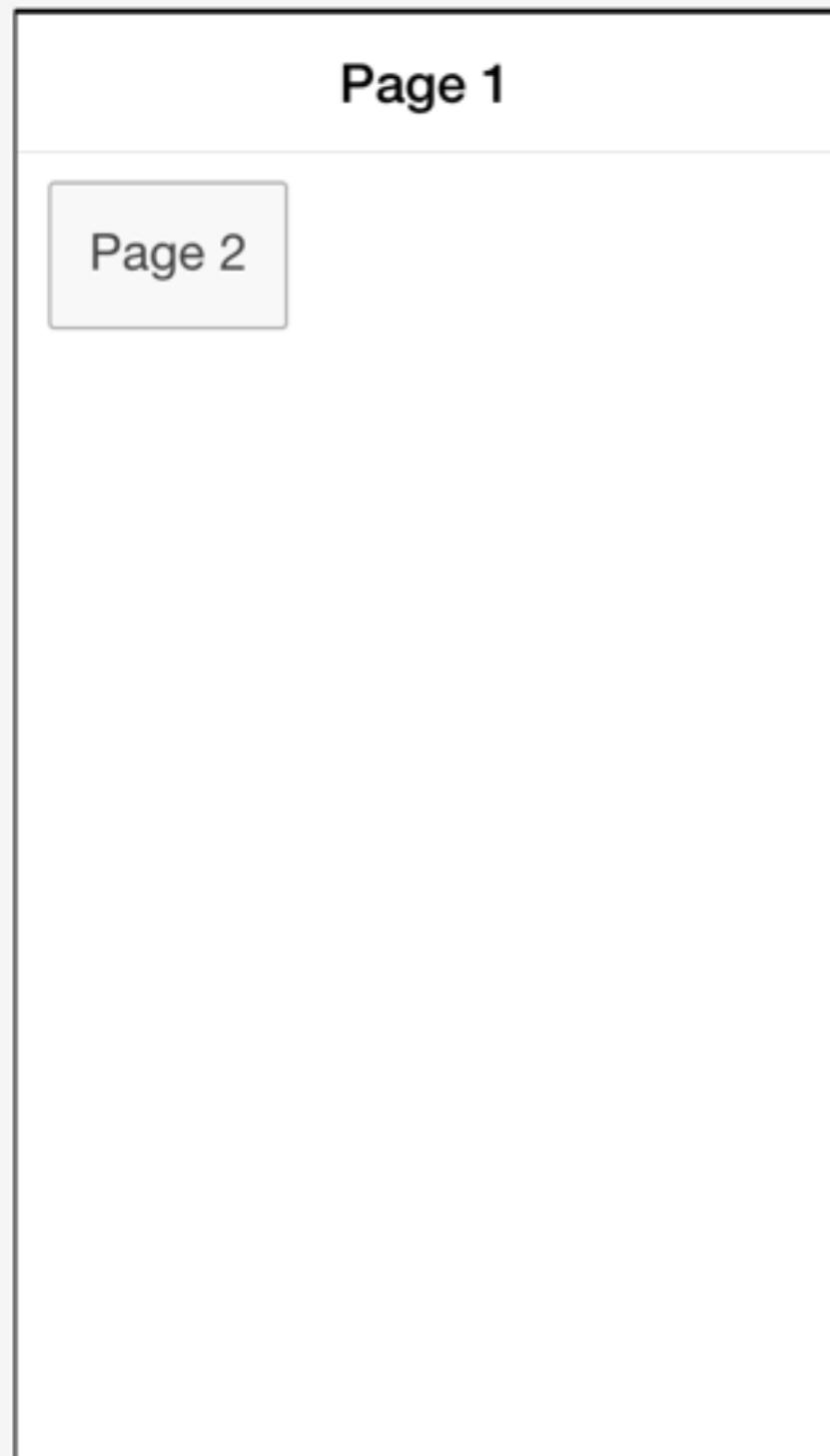
Complex List



- Similar so Angular's ng-repeat
- Inspirado pelo iOS UICollectionView
- Scroll milhares de items
- Apenas renderiza items visíveis
- Scroll com performance

```
<div class="list">
  <div collection-repeat="c in contacts">
    <h2>{{ c.name }}</h2>
    <p>{{ c.email }}</p>
  </div>
</div>
```

Navigation

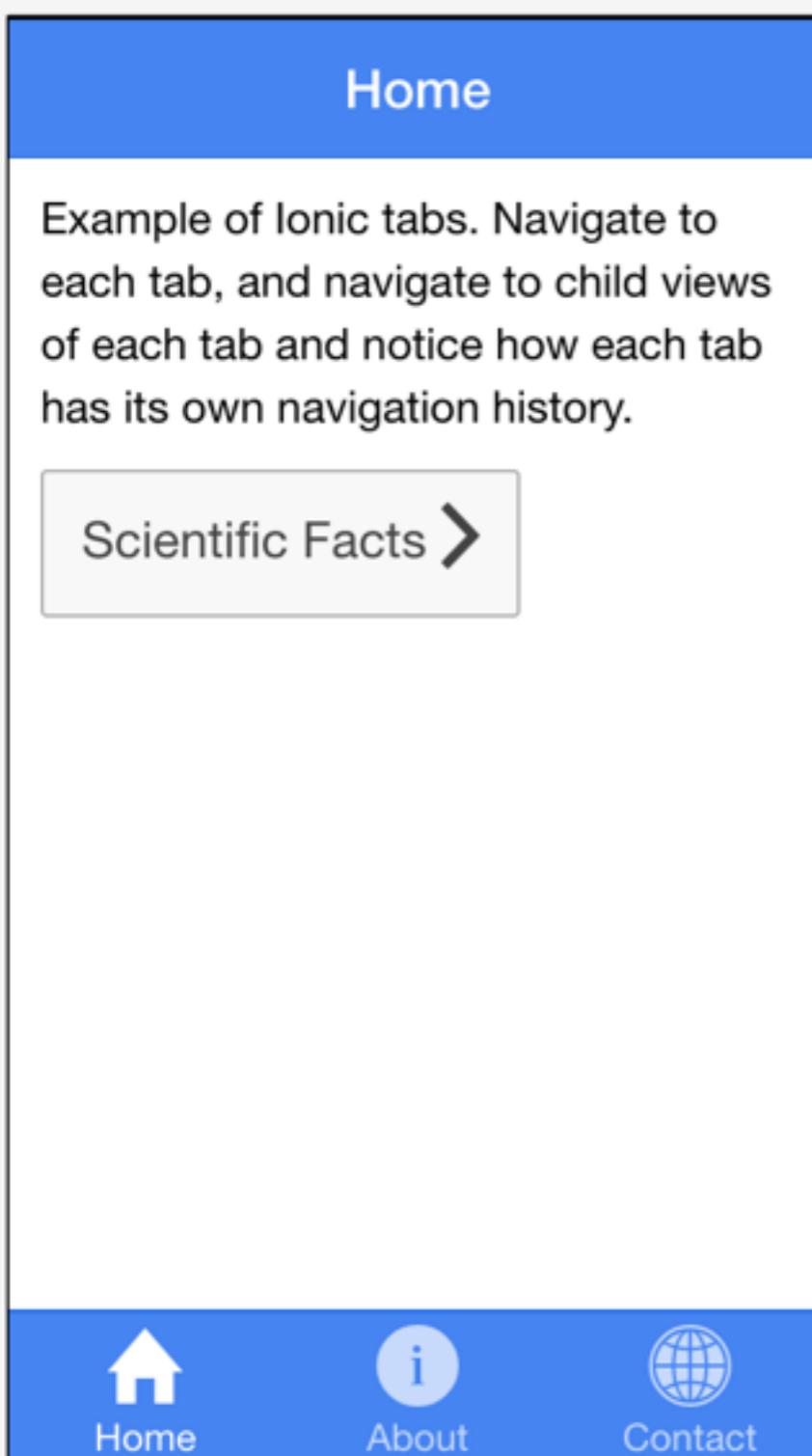


- Usa AngularUI Router
- Mostra botão Voltar quando possível
- Transições obedecem direção da pag
- Funciona com botão Voltar - Android

```
<ion-nav-bar>
  <ion-nav-back-button>
    Back
  </ion-nav-back-button>
</ion-nav-bar>
```

```
<ion-nav-view></ion-nav-view>
```

Tabs



- Nested views
- Cada tab tem próprio history
- Estados abstraídos no router - Angular

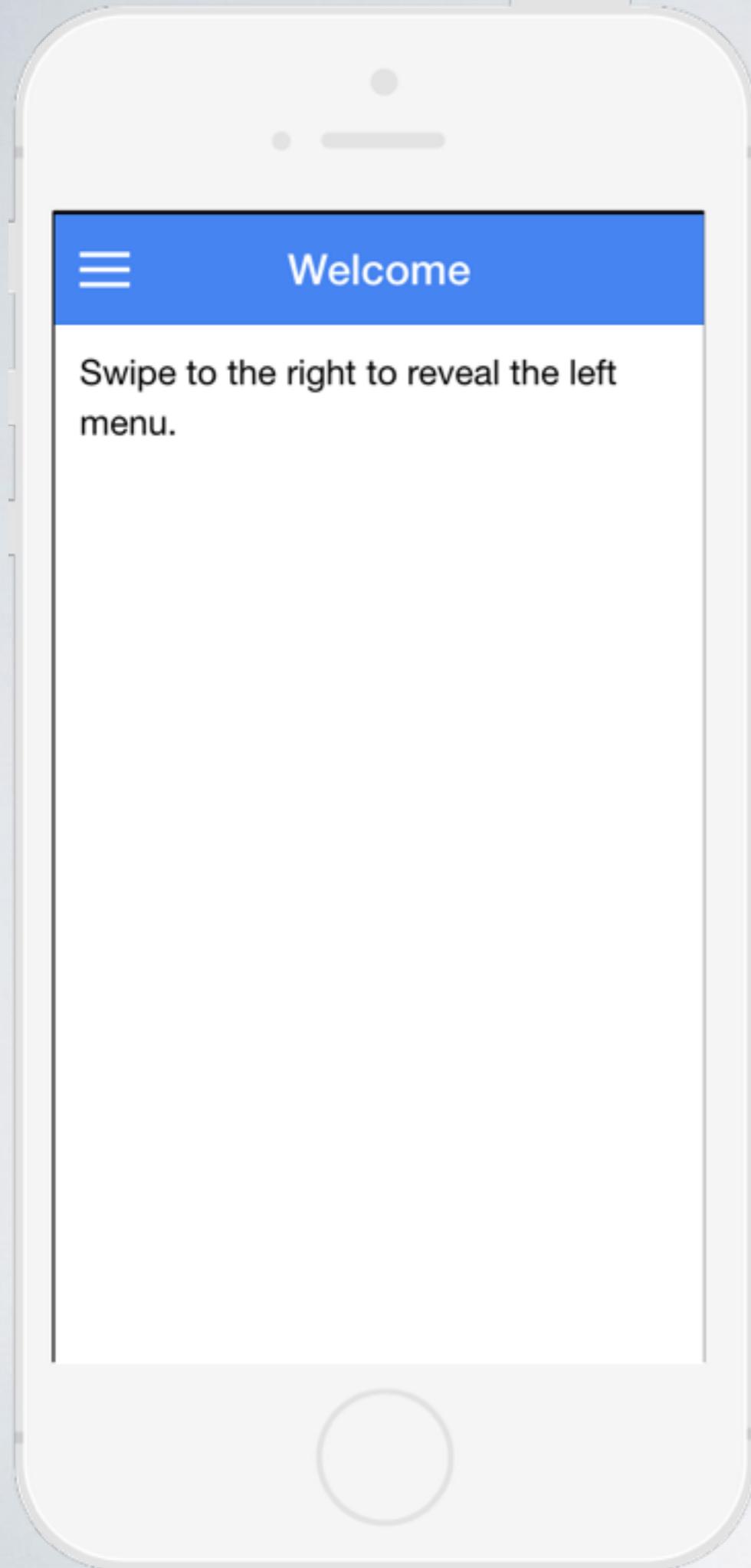
<ion-tabs>

```
<ion-tabs>
  <ion-tab title="Home" icon="ion-home">
    <ion-nav-view name="home"></ion-nav-view>
  </ion-tab>
```

```
<ion-tab title="About" icon="ion-information">
  <ion-nav-view name="about"></ion-nav-view>
</ion-tab>
```

```
<ion-tab title="Contact" icon="ion-ios7-world">
  <ion-nav-view name="contact"></ion-nav-view>
</ion-tab>
```

```
</ion-tabs>
```



Side Menu

```
<ion-side-menus>

  <ion-side-menu-content>

    <ion-nav-view name="menuContent"></ion-nav-view>

  </ion-side-menu-content>

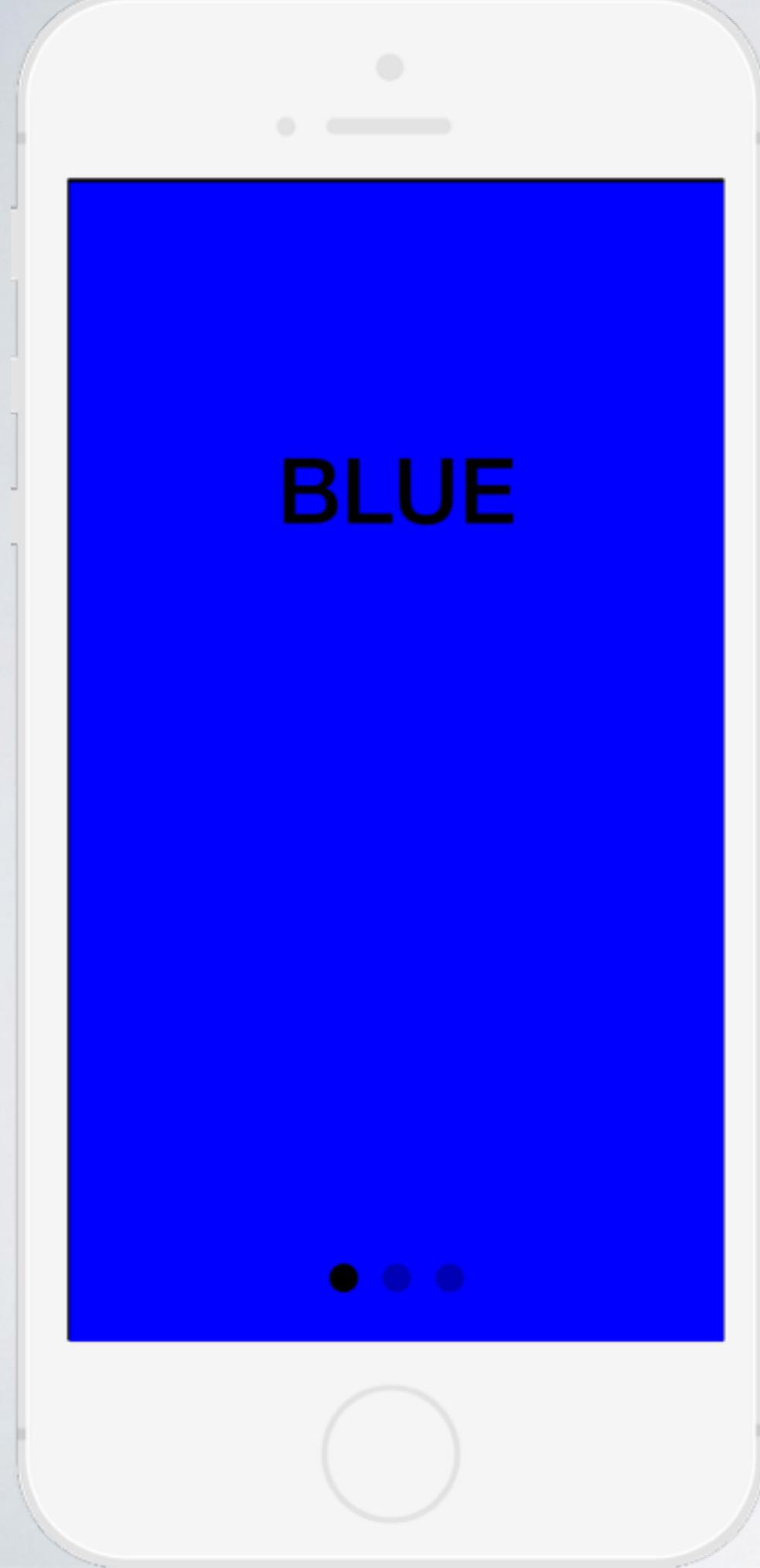
  <ion-side-menu side="left">

    <ion-header-bar class="bar-assertive">
      <h1 class="title">Left Menu</h1>
    </ion-header-bar>

    <ion-content>
      ...
    </ion-content>

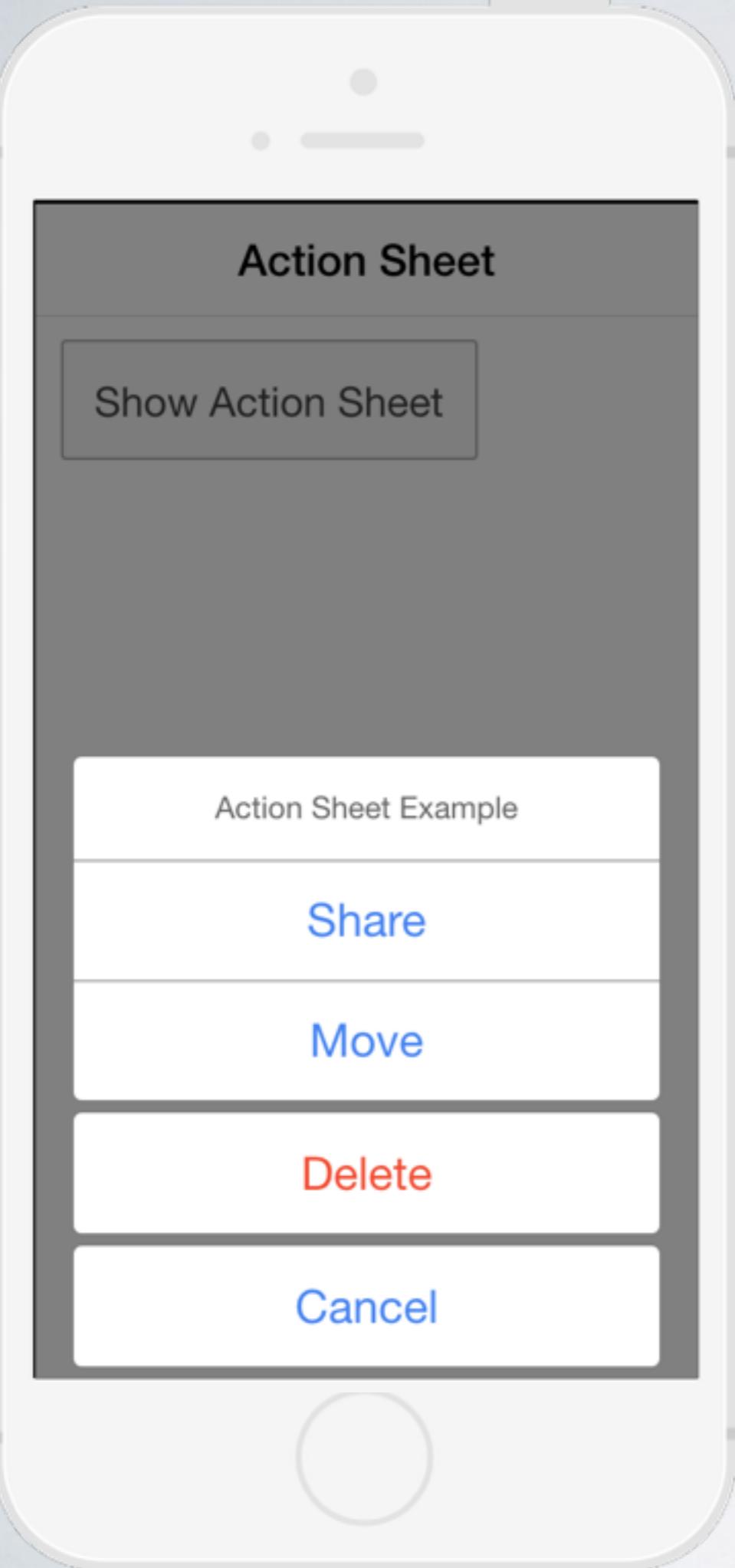
  </ion-side-menu>

</ion-side-menus>
```



Slide Box

```
<ion-slide-box on-slide-changed="change(index)">
  <ion-slide>
    Slide 1
  </ion-slide>
  <ion-slide>
    Slide 2
  </ion-slide>
  <ion-slide>
    Slide 3
  </ion-slide>
</ion-slide-box>
```



Action Sheet

- AngularJS Service
- Injeta nos controllers

```
$ionicActionSheet.show({  
  titleText: 'Action Sheet Example',  
  buttons: [  
    { text: 'Share' },  
    { text: 'Move' },  
  ],  
  destructiveText: 'Delete',  
  cancelText: 'Cancel',  
  buttonClicked: function(index) {  
    console.log('BUTTON CLICKED', index);  
    return true;  
  }  
});
```

Instalação

```
npm install -g cordova ionic
```



Criando uma app

`ionic start myApp tabs`

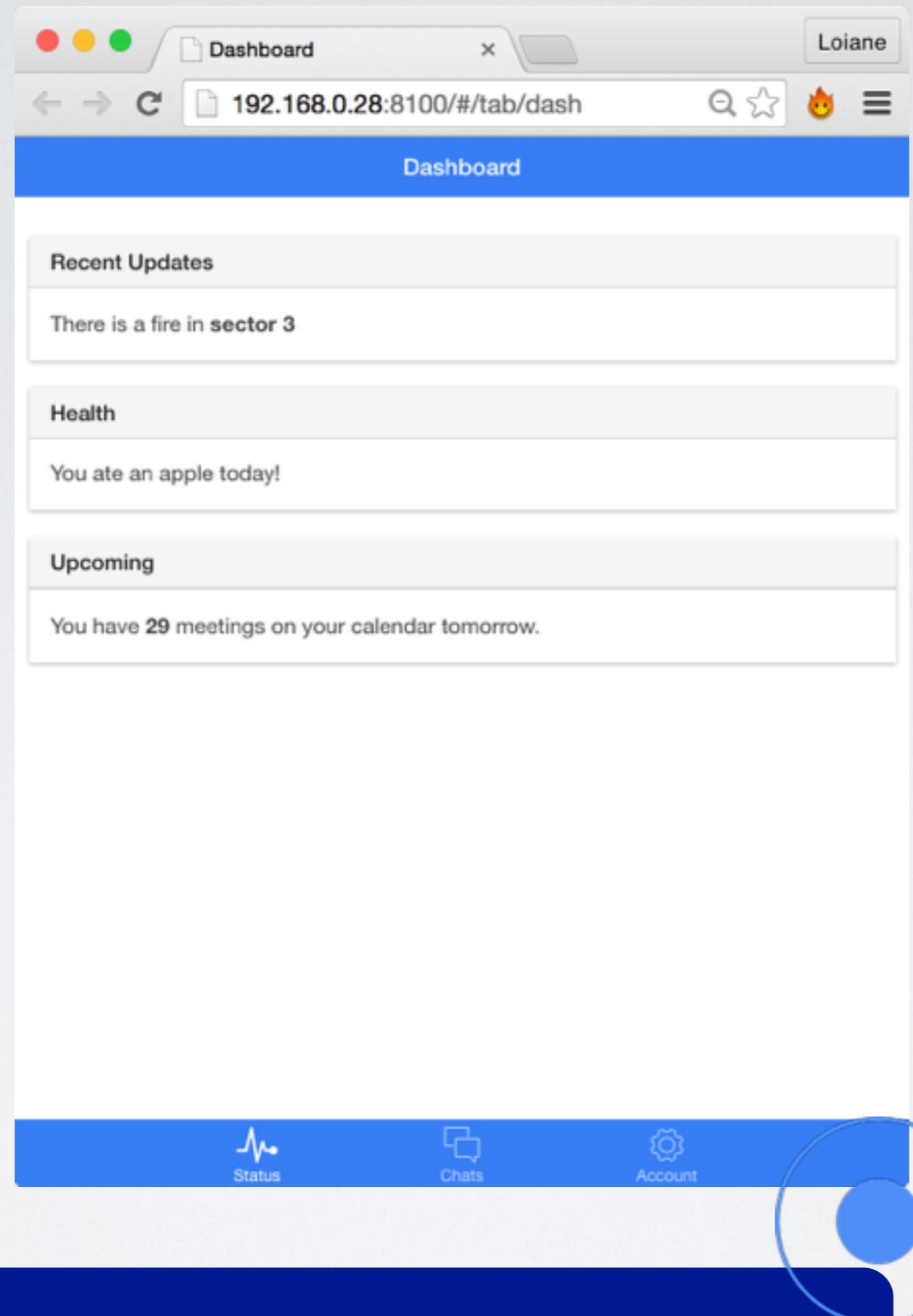


`ionic start myApp sidemenu`



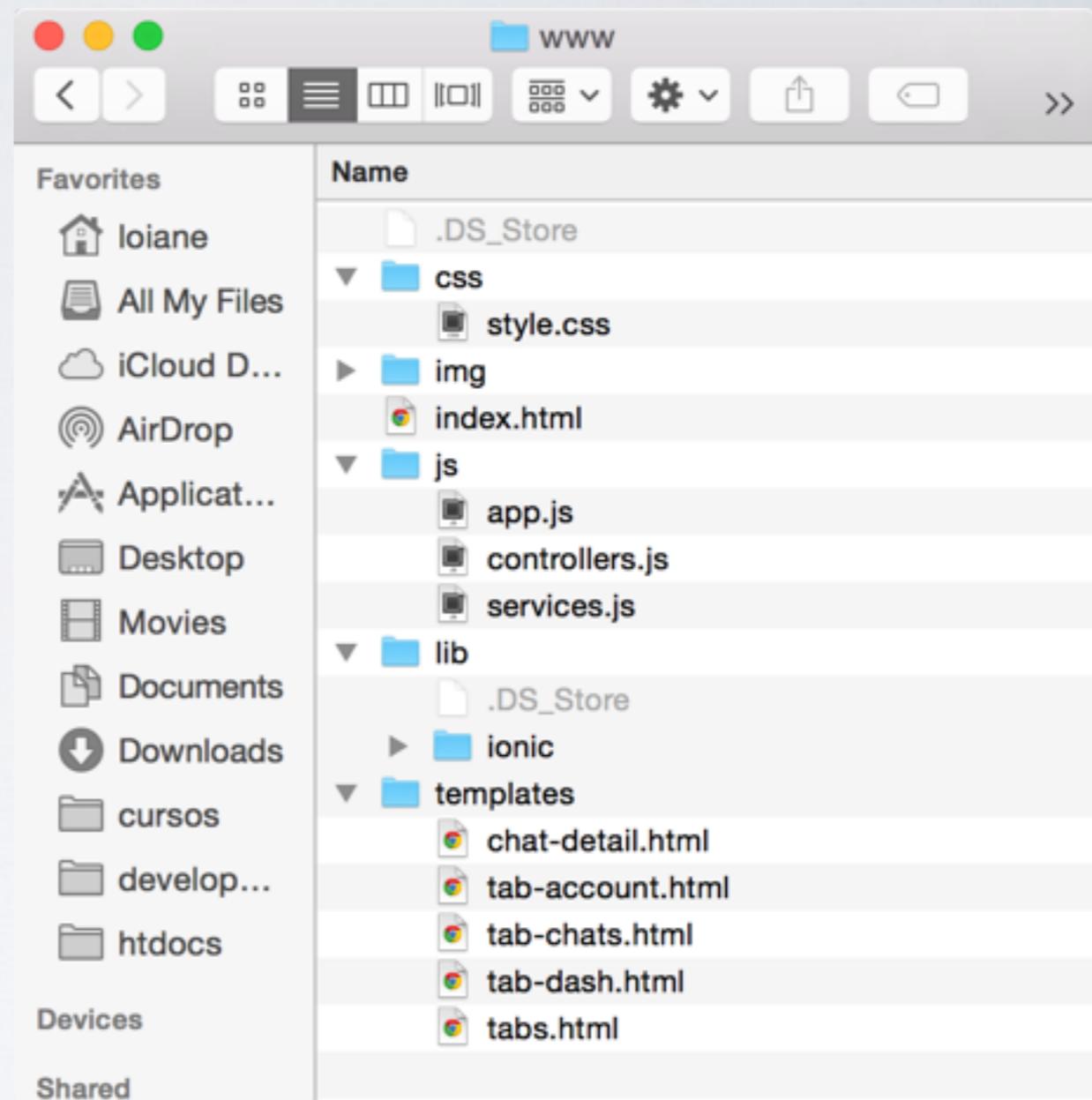
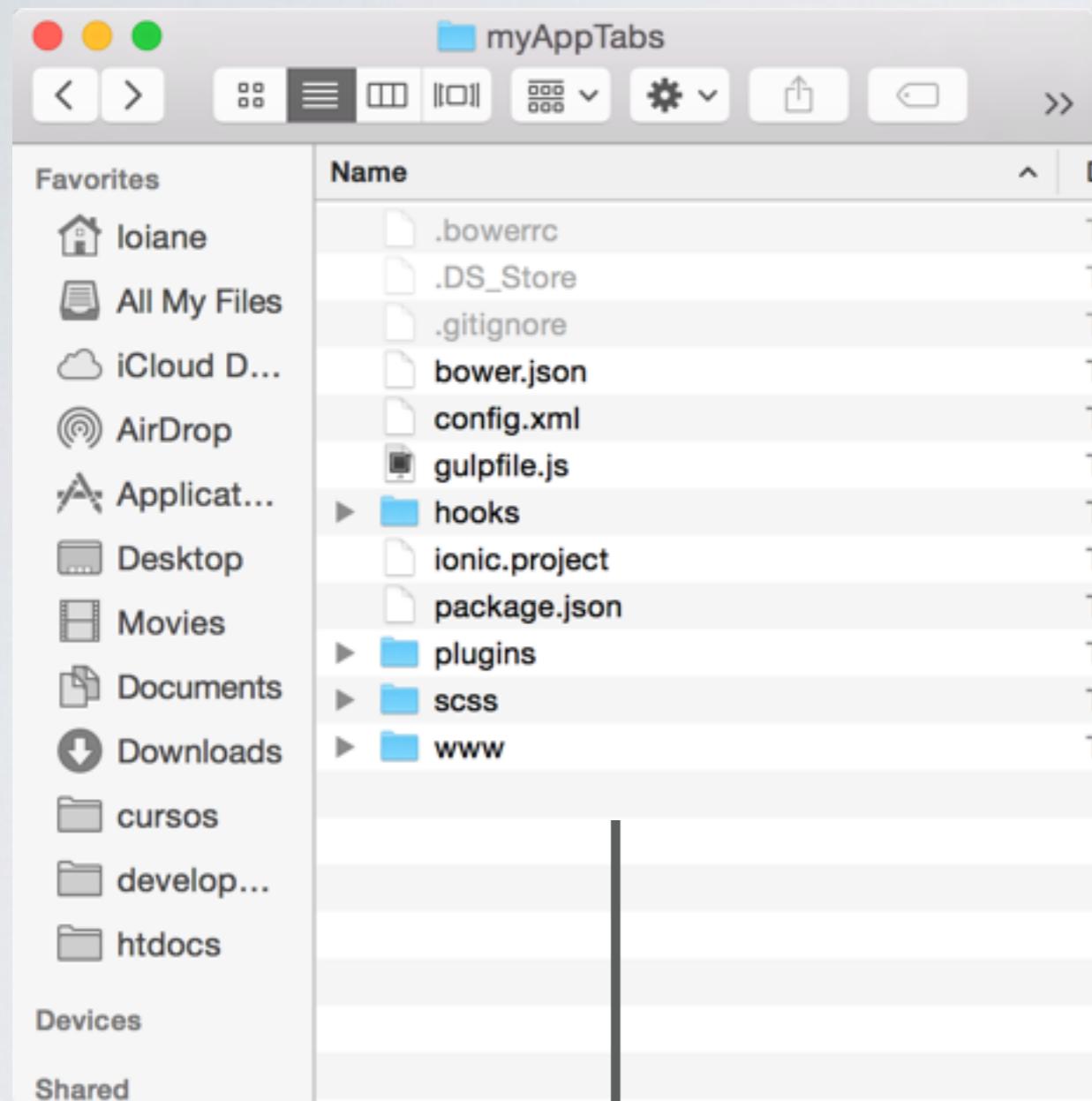
`ionic start myApp blank`





ionic serve

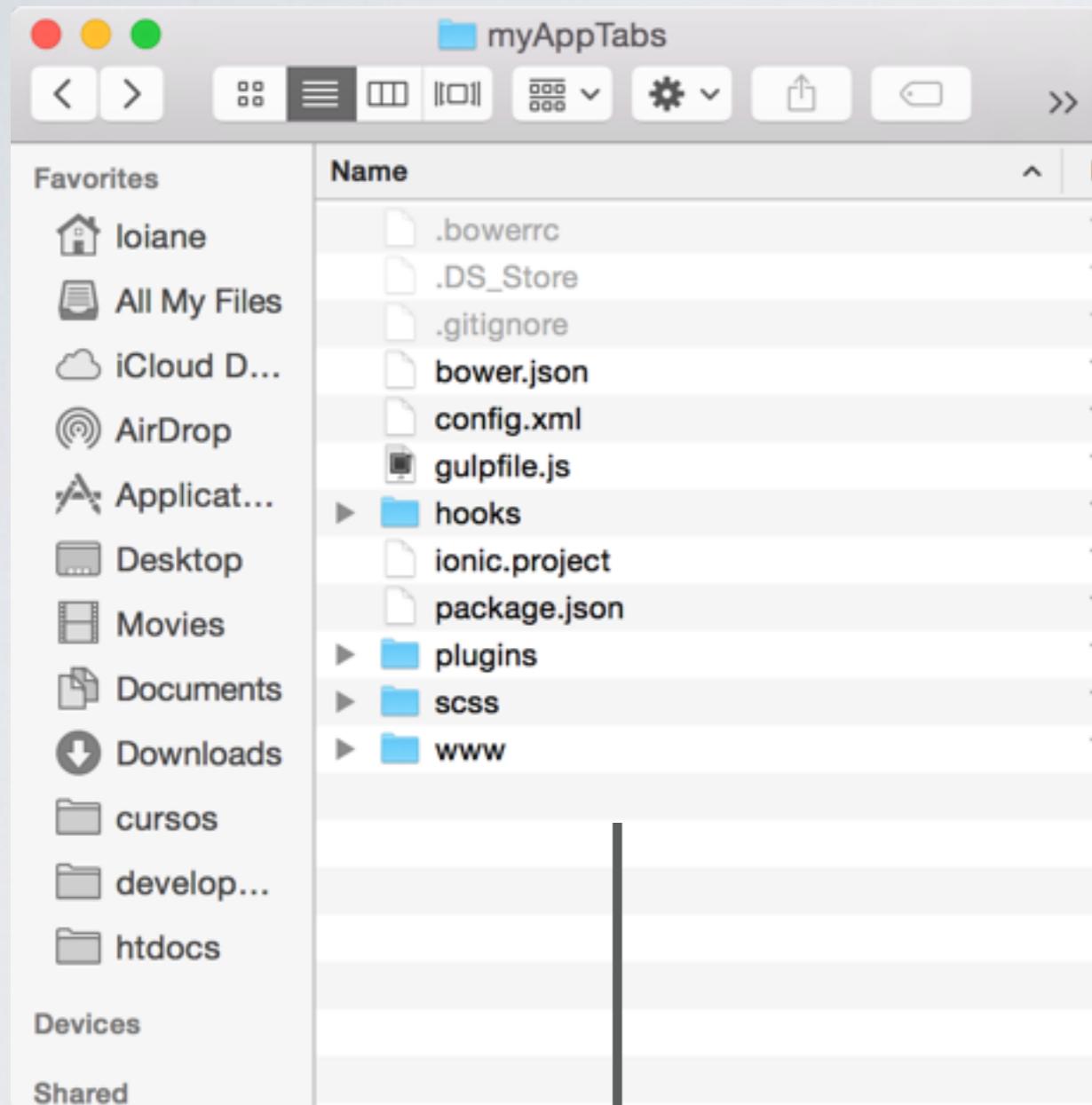
Estrutura Projeto



↓
Familiar?

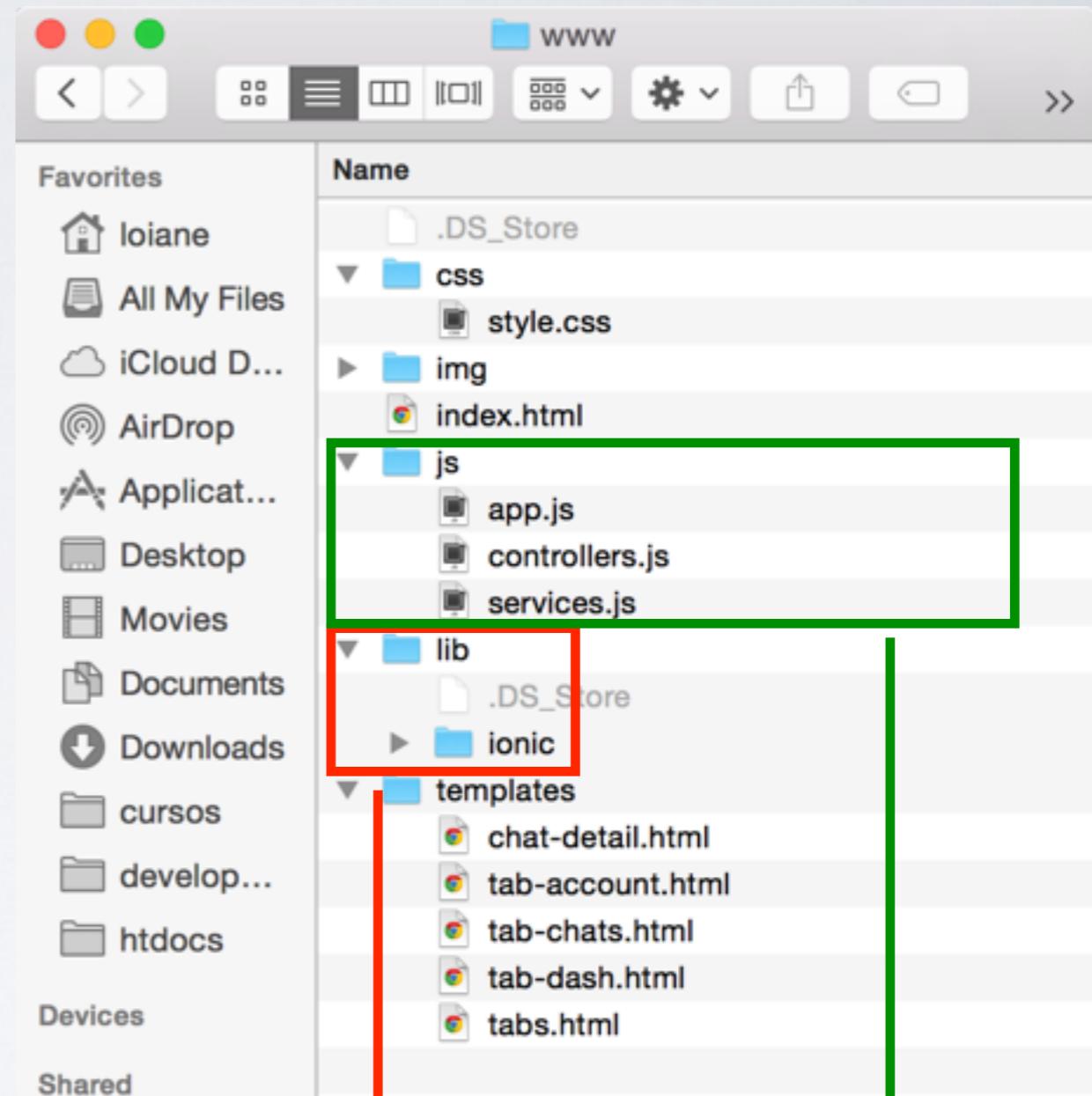
Projeto Cordova

Estrutura Projeto



Familiar?

Projeto Cordova



Usa lib do Ionic

Angular

Overview Código
Fonte Ionic

Desenv Nativo: Local

ionic platform add android



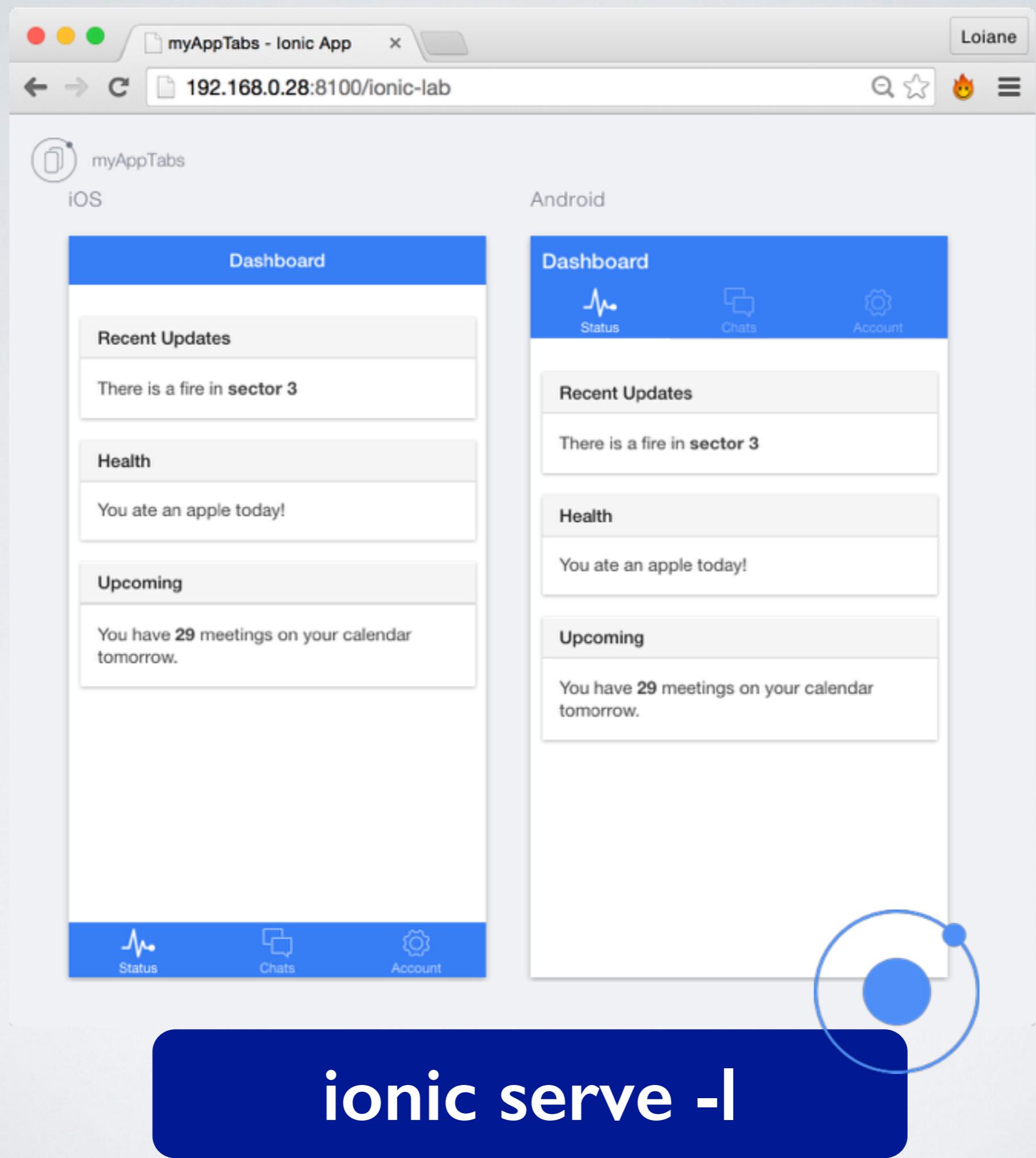
ionic build android



ionic emulate android







ionic serve -l

Ionic Creator

creator.ionic.io/app/designer/067885dd4446

MinhaApp

All changes saved

EDIT TEST

PAGES

- >Login
- form

Usuário:

Senha:

Lembrar usuário

button

COMPONENTS

Button Bar

Button

Card

Heading

</>

Find a bug?

4:20 PM 100% Login

Usuário: usuario@email.com

Senha:

Lembrar usuário

Fazer login

TITLE

Senha:

TYPE

password

PLACEHOLDER

NAME

senha

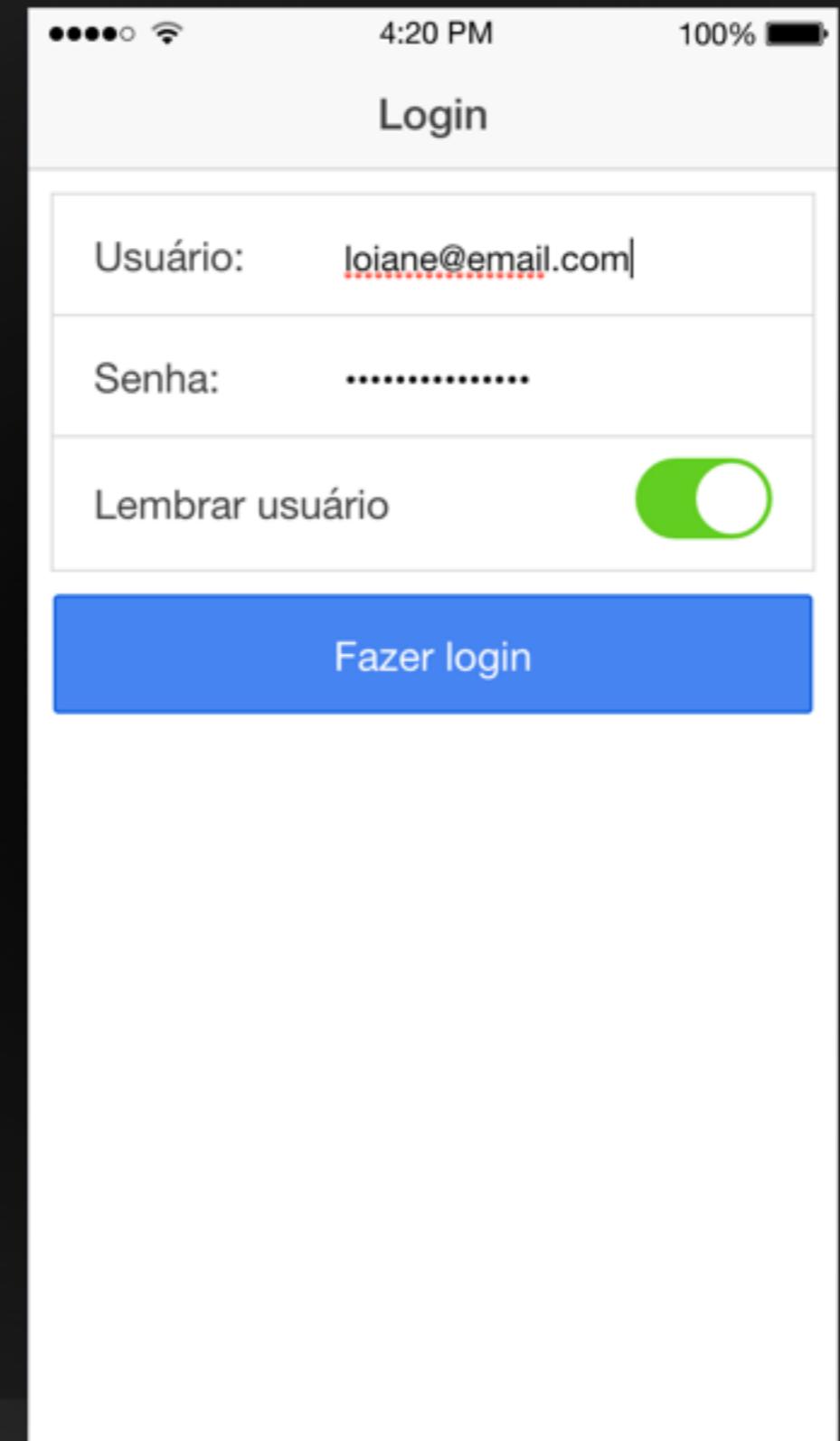
<http://creator.ionic.io/>

Find a bug?

Tweet

8 Plus

Star





PAGES

Login

form

Usuário:

Senha:

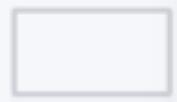
Lembrar u

button

COMPONENTS



Button Bar



Card

Done



Find a bug?

Tweet

8 Pl



ionic-cordova-examples – bash – 80x24

Loiane:ionic-cordova-examples loiane\$ ionic start appTestIonicCreator creator:067885dd4446

Creating Ionic app in folder /Users/loiane/Documents/development/ionic-cordova-examples/appTestIonicCreator based on **creator:067885dd4446** project

Downloading: <https://github.com/driftyco/ionic-app-base/archive/master.zip>
[=====] 100% 0.0s

Downloading Creator Prototype: <https://apps.ionic.io/api/v1/creator/067885dd4446/download/html>

Update config.xml

Initializing cordova project

Fetching plugin "org.apache.cordova.device" via plugin registry

Fetching plugin "org.apache.cordova.console" via plugin registry

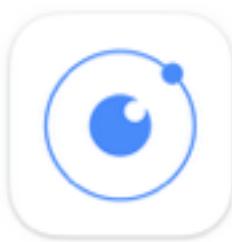
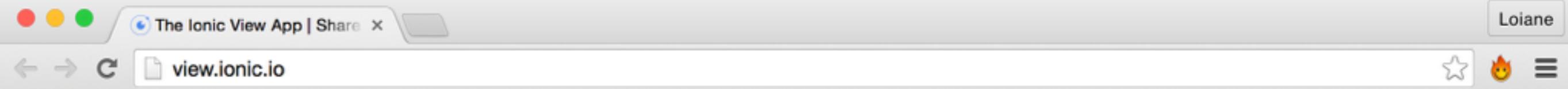
Fetching plugin "com.ionic.keyboard" via plugin registry

Replacing Ionic lib references with lib/ionic

Your Ionic project is ready to go! Some quick tips:

* cd into your project: \$ **cd appTestIonicCreator**

* Setup this project to use Sass: **ionic setup sass**



ionicview

Share your apps with the world

Ionic View makes it easy to share your [Ionic](#) and Cordova apps with clients and testers around the world, all without ever going through the App Store.



App Store



Google play



ionicPhonegapContacts – bash – 80x17

Loiane:ionicPhonegapContacts loiane\$ ionic upload

To continue, please login to your Ionic account.

Don't have one? Create a one at: <https://apps.ionic.io/signup>

Email:

Password:

Logged in! :)

Uploading app...

Successfully uploaded (db8efcc1)

Share your beautiful app with someone:

\$ ionic share EMAIL

Loiane:ionicPhonegapContacts loiane\$ █



LOIANE GRONER

LOGOUT

You have 1 Ionic project

Create a new project:

```
$ ionic start [project]  
$ ionic login  
$ ionic upload
```

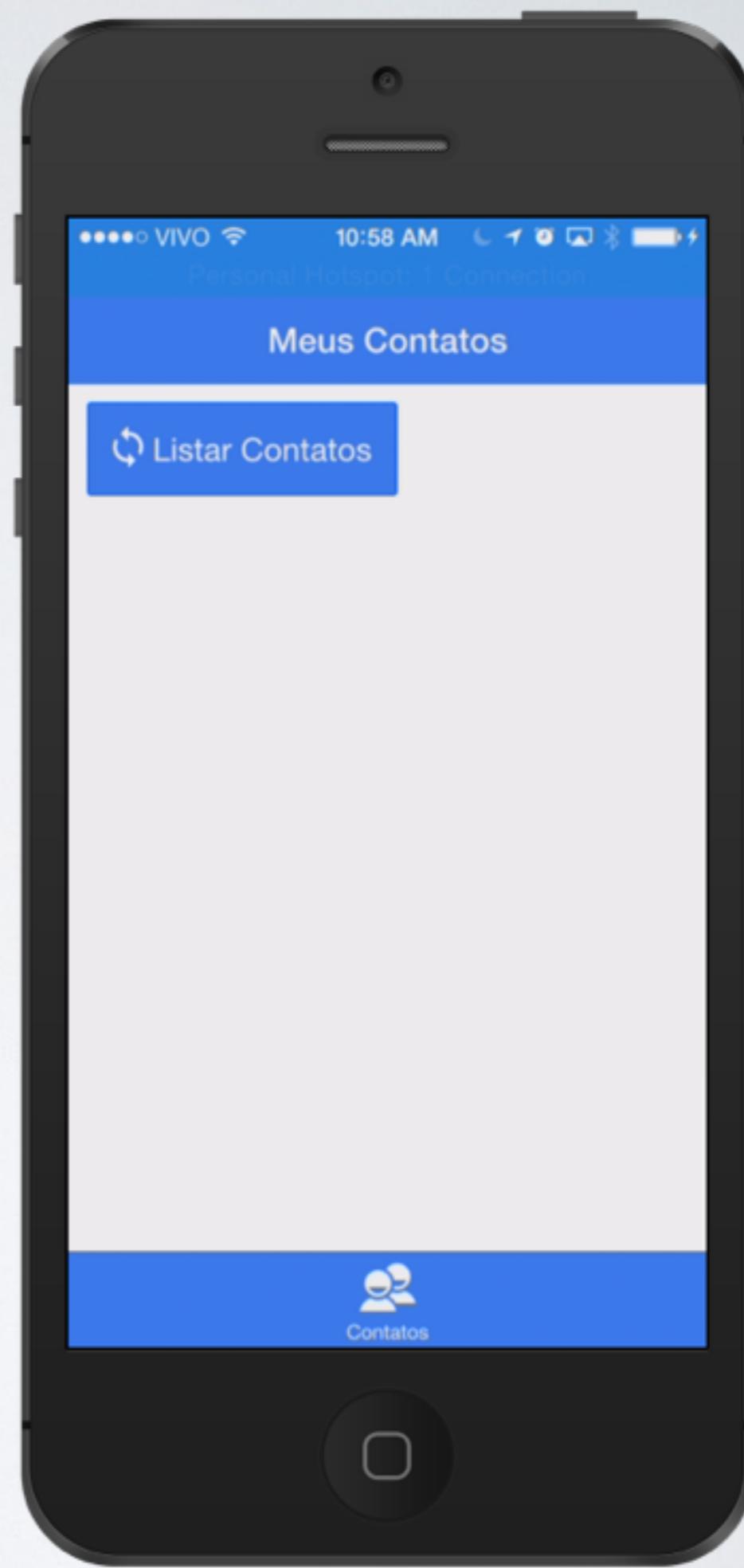
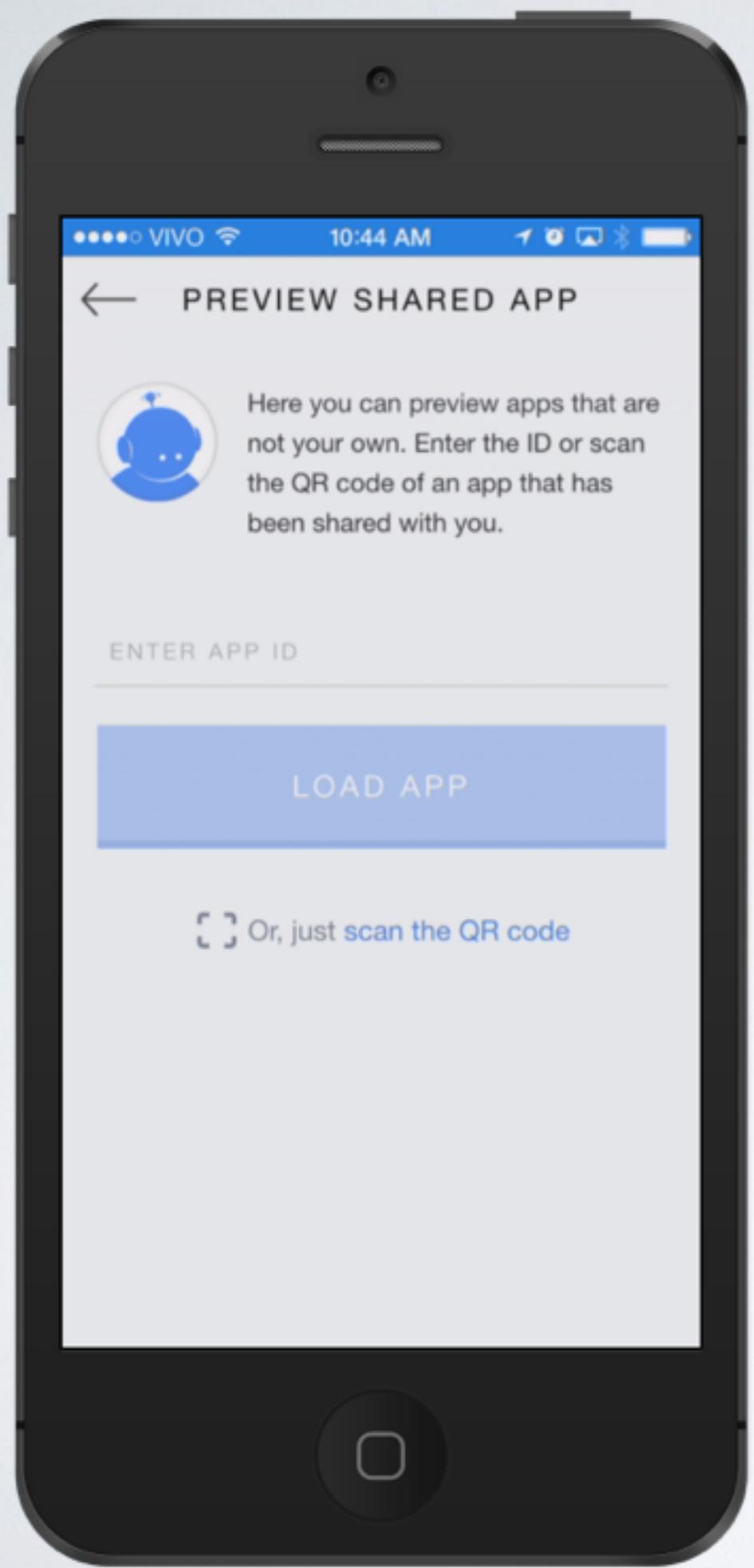
ionicPhonegapContacts

[Download](#)

ID: db8efcc1

Modified: March 17, 2015

[Open with the Ionic View app for live testing](#)[delete](#)



Ionic Documentation - Ionic X

ionicframework.com/docs/ Loiane

Products Getting Started Docs Showcase Forum Blog

Ionic Documentation

An overview of Ionic, why we built it, how to use it, and what you should know along the way

Check out our Guide, which covers all the basics of setting up.

Search

OVERVIEW

CSS

JAVASCRIPT

CLI

LEARN IONIC

GUIDE

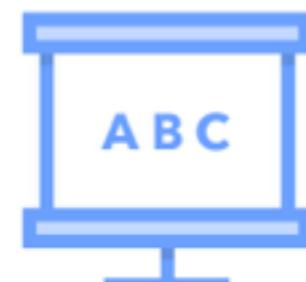
FAQ

GETTING HELP

IONIC CONCEPTS

Start Building with Ionic!

Jump into our docs where you'll find resources that teach you how to use Ionic, and reference documentation for all the moving parts.



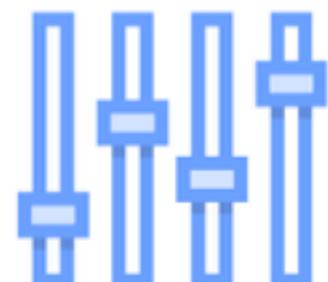
Overview

Learn everything you need to know to get up and running with the framework.



CSS Components

A comprehensive list of our CSS mobile components. Everything you'd need.



JavaScript

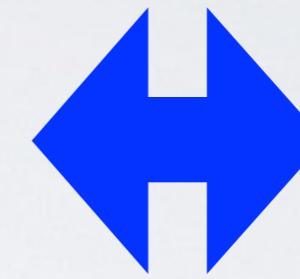
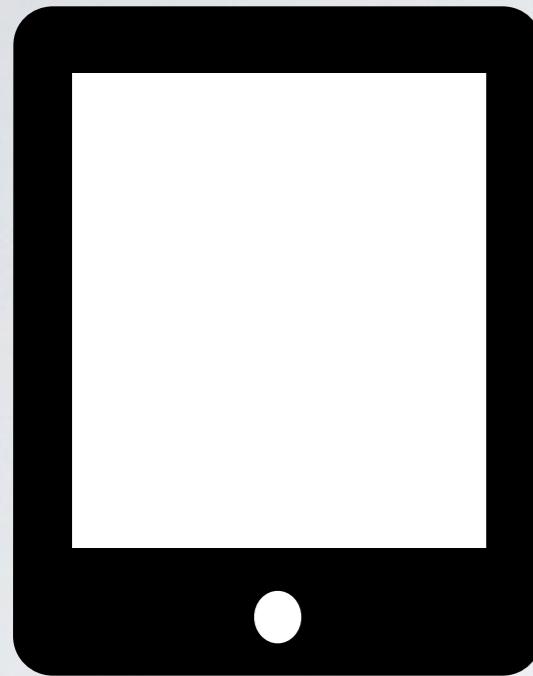
Explore our API docs for information on the Controllers and Javascript utilities.

**Criar uma app e
modificar
(ionic start ou ionic
creator)**

Requests para Servidor: Webservices e serviços

Dúvida...





Java, C#, Ruby,
Python, PHP,
Node

MySQL, SQL
Server, Oracle,
Firebase,
NoSQL

Mas e pra comunicar
com server, posso usar
Phonegap também?

Phonegap **não** faz isso,
é apenas container da
app e APIs para acesso
nativo!

AJAX

+



<http://enable-cors.org/>

AJAX

JS



+

ENABLE
cors



Microsoft®
.net™
python™

getcountries.php

```
<?php  
  
header("Content-Type: application/json");  
  
echo json_encode($countries =  
array("Afghanistan", "Albania", "Algeria",  
"American Samoa", "Andorra", "Angola",  
"Anguilla", "Antarctica", "Antigua and  
Barbuda", "Argentina", "Armenia", "Aruba",  
"Australia", "Austria", "Azerbaijan",  
"Bahamas", "Bahrain", "Bangladesh",  
"Barbados", "Belarus", "Belgium", "Belize",  
"Benin", "Bermuda", "Bhutan", "Bolivia",  
"Bosnia and Herzegovina", "Botswana"));
```

Ionic Template

```
<ion-view view-title="Example: CORS">
  <ion-content class="padding">
    <button class="button button-positive" ng-click="loadCountries()">
      Load Countries
    </button>
    <ion-list>
      <ion-item ng-repeat="country in countries">
        {{country}}
      </ion-item>
    </ion-list>
  </ion-content>
</ion-view>
```

Ionic - Controller

```
.controller('CORSCtrl', function ($scope, $http) {  
    $scope.loadCountries = function(){  
        $scope.countries = [];  
        var ajaxRequest = $http.get("http://localhost/cors-phonegap/getcountries.php");  
        ajaxRequest.success(function(data, status, headers, config) {  
            $scope.countries = data;  
            alert("Countries loaded!");  
        });  
        ajaxRequest.error(function(data, status, headers, config) {  
            alert("AJAX failed!");  
        });  
    };  
})
```



Example: CORS disabled

Load Countries

🔍 📱 Elements Network Sources » × 1 ➔⚙️ ✎ ×



<top frame>



Preserve log

✖ XMLHttpRequest cannot load [\(index\):1](http://localhost/cors-phonegap/getcountries-nocors.php)
http://localhost/cors-phonegap/getcountries-nocors.php. No
'Access-Control-Allow-Origin' header is present on the
requested resource. Origin '<http://192.168.0.33:8100>' is
therefore not allowed access.



Console

Search Emulation Rendering



Example: CORS disabled

Load Countries

🔍 📱 Elements Network Sources » × 1 ➔⚙️ ✎ ×



<top frame>



Preserve log

✖ XMLHttpRequest cannot load [\(index\):1](http://localhost/cors-phonegap/getcountries-nocors.php)
http://localhost/cors-phonegap/getcountries-nocors.php. No
'Access-Control-Allow-Origin' header is present on the
requested resource. Origin '<http://192.168.0.33:8100>' is
therefore not allowed access.



Console

Search Emulation Rendering



<http://enable-cors.org/>

getcountries.php

```
<?php  
  
header("Access-Control-Allow-Origin: *");  
header("Content-Type: application/json"); ←  
  
echo json_encode($countries =  
array("Afghanistan", "Albania", "Algeria",  
"American Samoa", "Andorra", "Angola",  
"Anguilla", "Antarctica", "Antigua and Barbuda",  
"Argentina", "Armenia", "Aruba", "Australia",  
"Austria", "Azerbaijan", "Bahamas", "Bahrain",  
"Bangladesh", "Barbados", "Belarus", "Belgium",  
"Belize", "Benin", "Bermuda", "Bhutan",  
"Bolivia", "Bosnia and Herzegovina",  
"Botswana"));
```



Example: CORS enabled

Loiane



192.168.0.33:8100/#/app/cors-enabled



Example: CORS enabled

Load Countries

Afghanistan

Albania

Algeria

American Samoa

Andorra



Elements

Network

Sources

Timeline

Profiles

>>



x



<top frame>



Preserve log



Console

Search

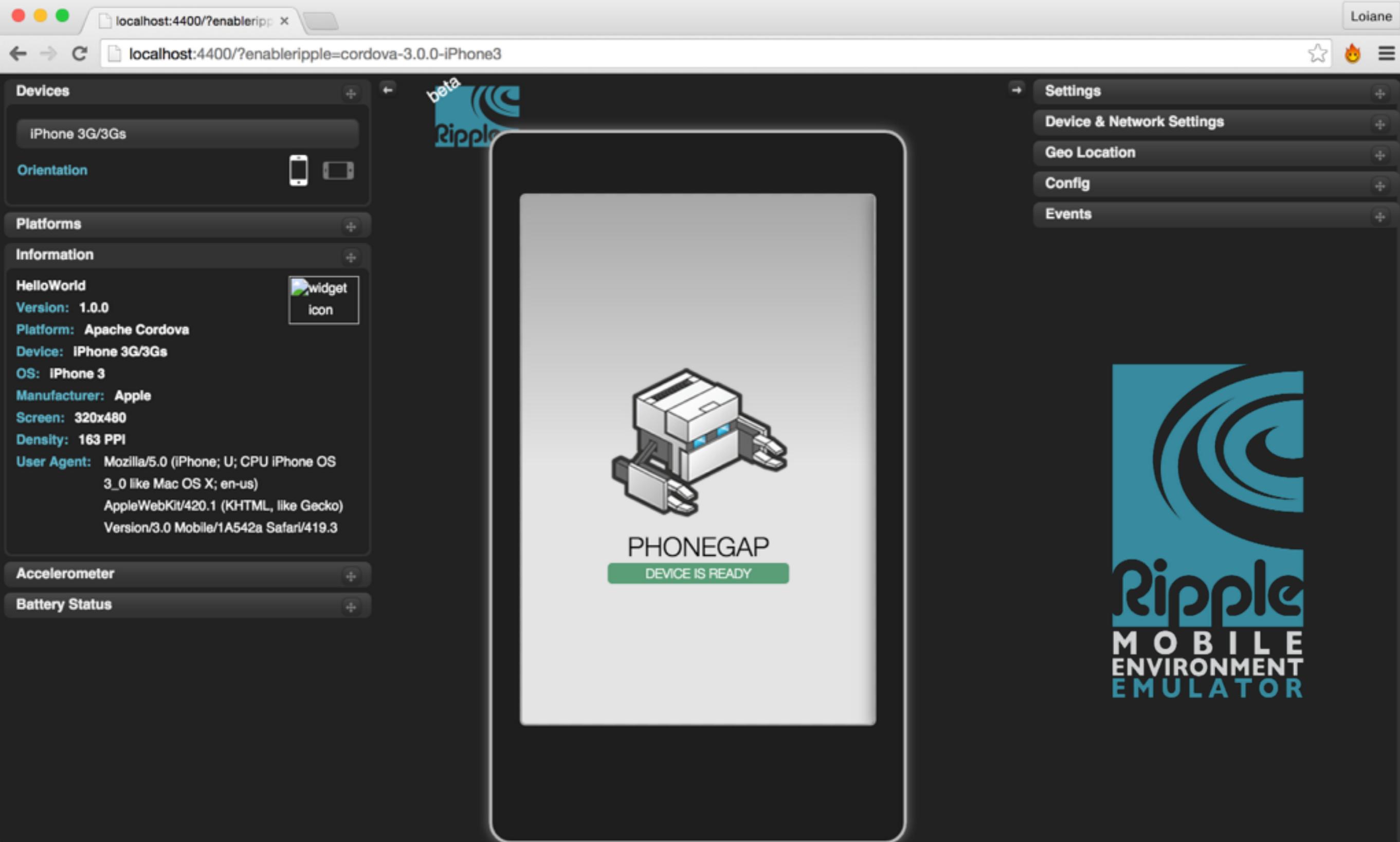
Emulation

Rendering

REST

URL	Verbo HTTP	Desc
api/tasks	GET	obtém lista de tarefas
api/tasks/:id	GET	obtém dados de tarefa específica
api/tasks/	POST	cria tarefa
api/tasks/:id	PUT	atualiza tarefa
api/tasks/:id	DELETE	deleta tarefa

Emulando no Browser



npm install ripple-emulator



Phonegap Dev app

phonegap serve



Ferramentas de debug

Chrome File Edit View History Bookmarks Window Help

weinre: file:///Users/loiane/

127.0.0.1:8080/client/#anonymous

weinre Elements Resources Network Timeline Console

```
<!DOCTYPE html>
<!--
    Licensed to the Apache Software Foundation (ASF) under one
    or more contributor license agreements. See the NOTICE
    file
    distributed with this work for additional information
    regarding copyright ownership. The ASF licenses this file
    to you under the Apache License, Version 2.0 (the
    "License"); you may not use this file except in compliance
    with the License. You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing,
    software distributed under the License is distributed on
    an
    "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
    KIND, either express or implied. See the License for the
    specific language governing permissions and limitations
    under the License.
-->
<html>
  <head>...</head>
  <body>
    <div class="app">
      <h1>Apache Cordova</h1>
      <div id="deviceready" class="blink">...</div>
    </div>
    <script type="text/javascript" src="cordova-2.2.0.js"></script>
    <script type="text/javascript" src="js/index.js"></script>
    <script type="text/javascript">
      app.initialize();
    </script>

```

Computed Style □ Show inherited

Styles

element.style {

}

Matched CSS Rules

.app {

- background: url(file:///Users/loiane/Lib...
- height: 50px;
- left: 50%;
- margin: -115px;
- padding: 180px;
- position: absolute;
- text-align: center;
- top: 50%;
- width: 225px;

*

- webkit-tap-highlight-color: transparent;

Inherited from body

body {

- font-family: HelveticaNeue-Light, Helvetica;
- font-size: 12px;
- text-transform: uppercase;

Metrics

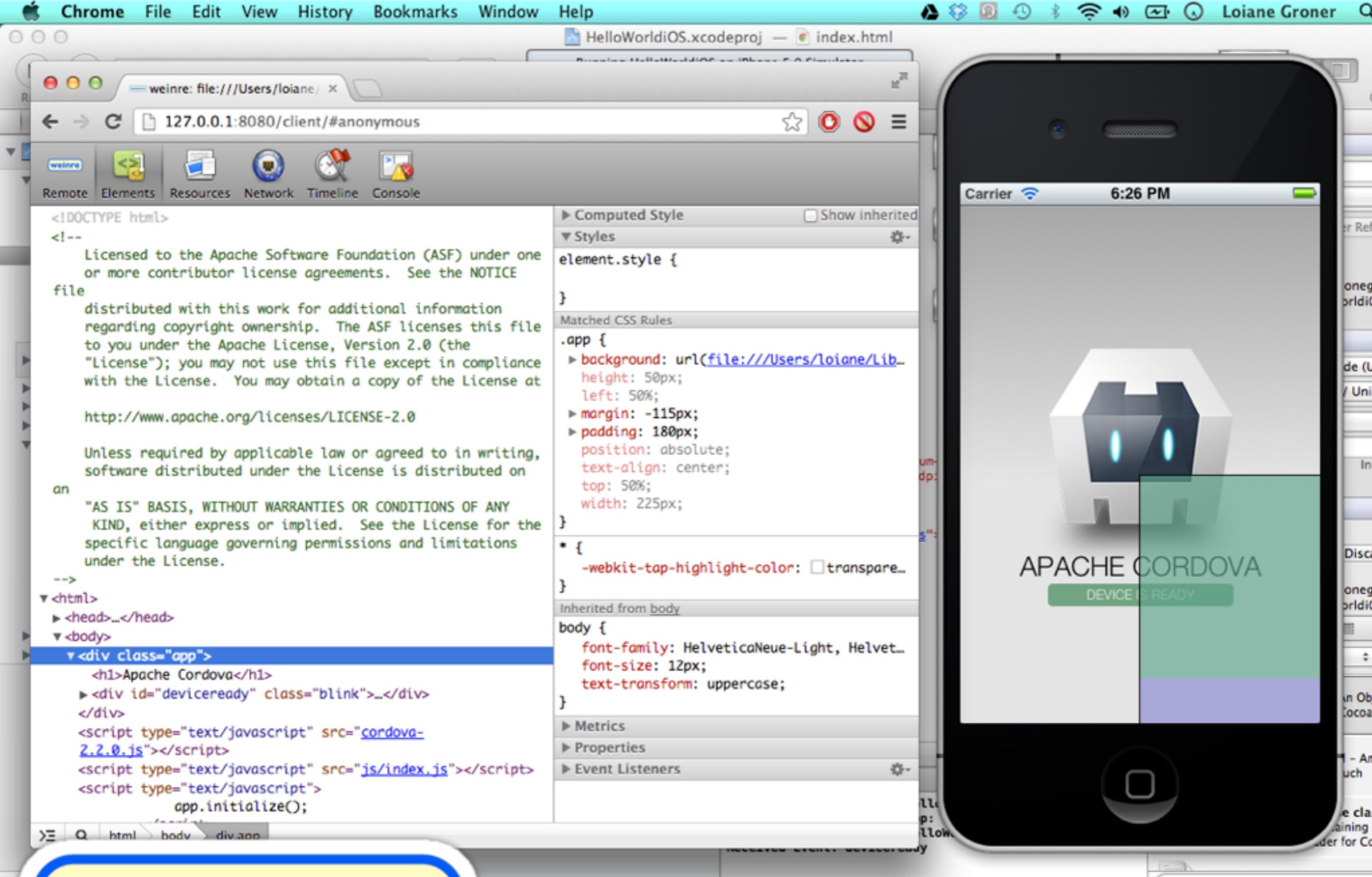
Properties

Event Listeners

Carrier 6:26 PM

APACHE CORDOVA

DEVICE IS READY

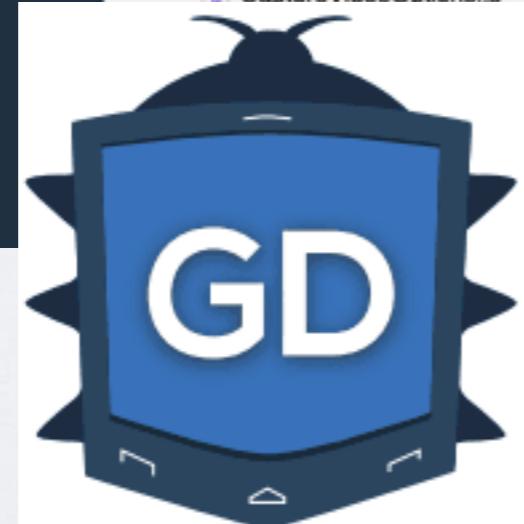


weinre

<http://people.apache.org/~pmuellr/weinre-docs/latest/>

The screenshot shows the GapDebug application running in a web browser window. The title bar reads "GapDebug" and the address bar shows "localhost:8080/gapdebug/index.html". The interface has a dark theme with blue highlights. On the left, there's a sidebar titled "DEVICES & APPS" showing "Loiane Groner's iPhone" (iPhone, iOS 8.1.3) and "HelloWorld - Hello World". The main area is titled "GapDebug" and shows a "Hello World" application. The top navigation bar includes "Resources", "Timelines", "Debugger", "Console", and search and refresh buttons. Below this is a "Search Resource Content" input field. The central part of the interface is the "DOM Tree" view, which displays the structure of the "index.html" file. The code shown is:

```
<!DOCTYPE html>
<!-- Copyright (c) 2012-2014 Adobe Systems Incorporated. All rights reserved. Licensed to
the Apache Software Foundation (ASF) under one or more contributor license agreements.
See the NOTICE file distributed with this work for additional information regarding
copyright ownership. The ASF licenses this file to you under the Apache License, Version
2.0 (the "License"); you may not use this file except in compliance with the License. You
may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless
required by applicable law or agreed to in writing, software distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
either express or implied. See the License for the specific language governing
permissions and limitations under the License. --&gt;
&lt;html&gt;
  &lt;head&gt;...&lt;/head&gt;
  &lt;body&gt;
    &lt;div class="app"&gt;...&lt;/div&gt;
    &lt;script type="text/javascript" src="cordova.js"&gt;&lt;/script&gt;
    &lt;script type="text/javascript" src="js/index.js"&gt;&lt;/script&gt;
    &lt;script type="text/javascript"&gt;app.initializeApp();&lt;/script&gt;
    &lt;script type="text/javascript" src="http://debug.build.phonegap.com/target/target-
script-min.js#f07623fc-ca81-11e4-9c99-f226c22ed271"&gt;&lt;/script&gt;
    &lt;iframe src="gap://ready" style="display: none;"&gt;...&lt;/iframe&gt;
    &lt;iframe src="gap://ready" style="display: none;"&gt;...&lt;/iframe&gt;
    &lt;iframe src="gap://ready" style="display: none;"&gt;...&lt;/iframe&gt;
  &lt;/body&gt;
&lt;/html&gt;</pre>
```

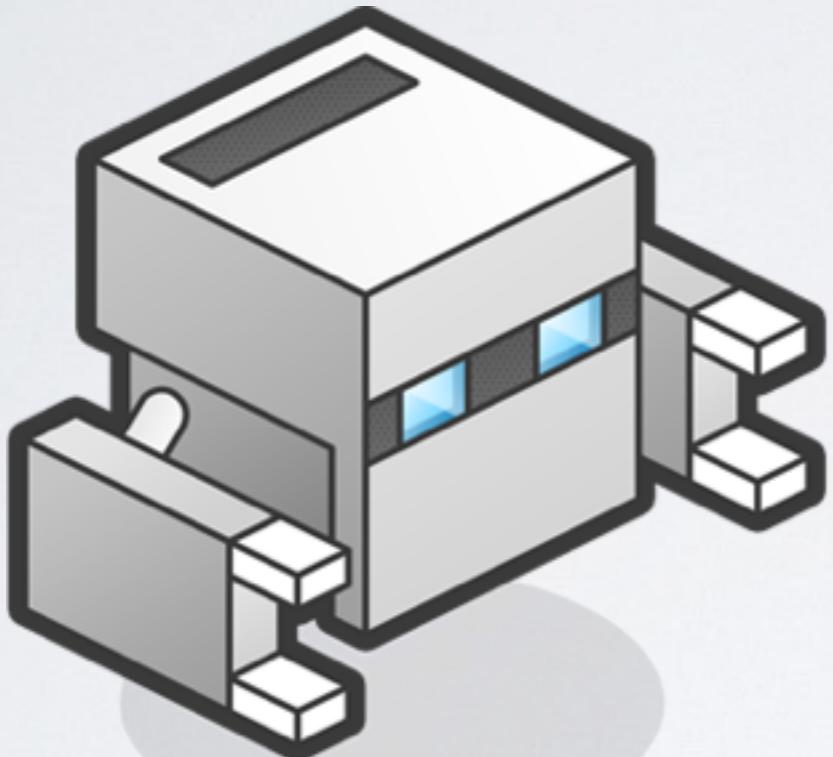


GapDebug

<https://www.genuitec.com/products/gapdebug/>

Fazendo build

Approaches para fazer Build



PhoneGap:Build

Write once. Compile in the cloud. Run anywhere.



iOS



ANDROID



Windows
phone

Build pela IDE



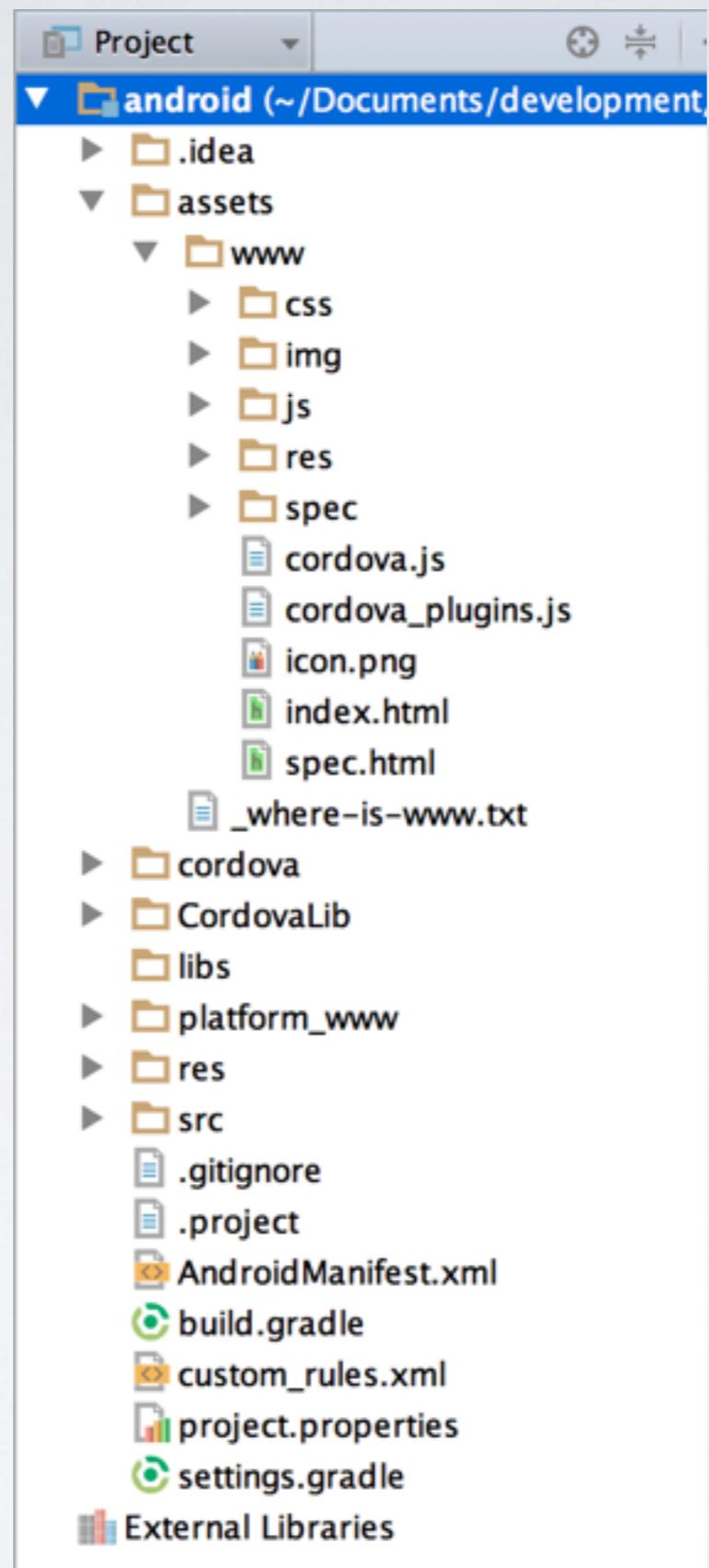
Add Plataforma



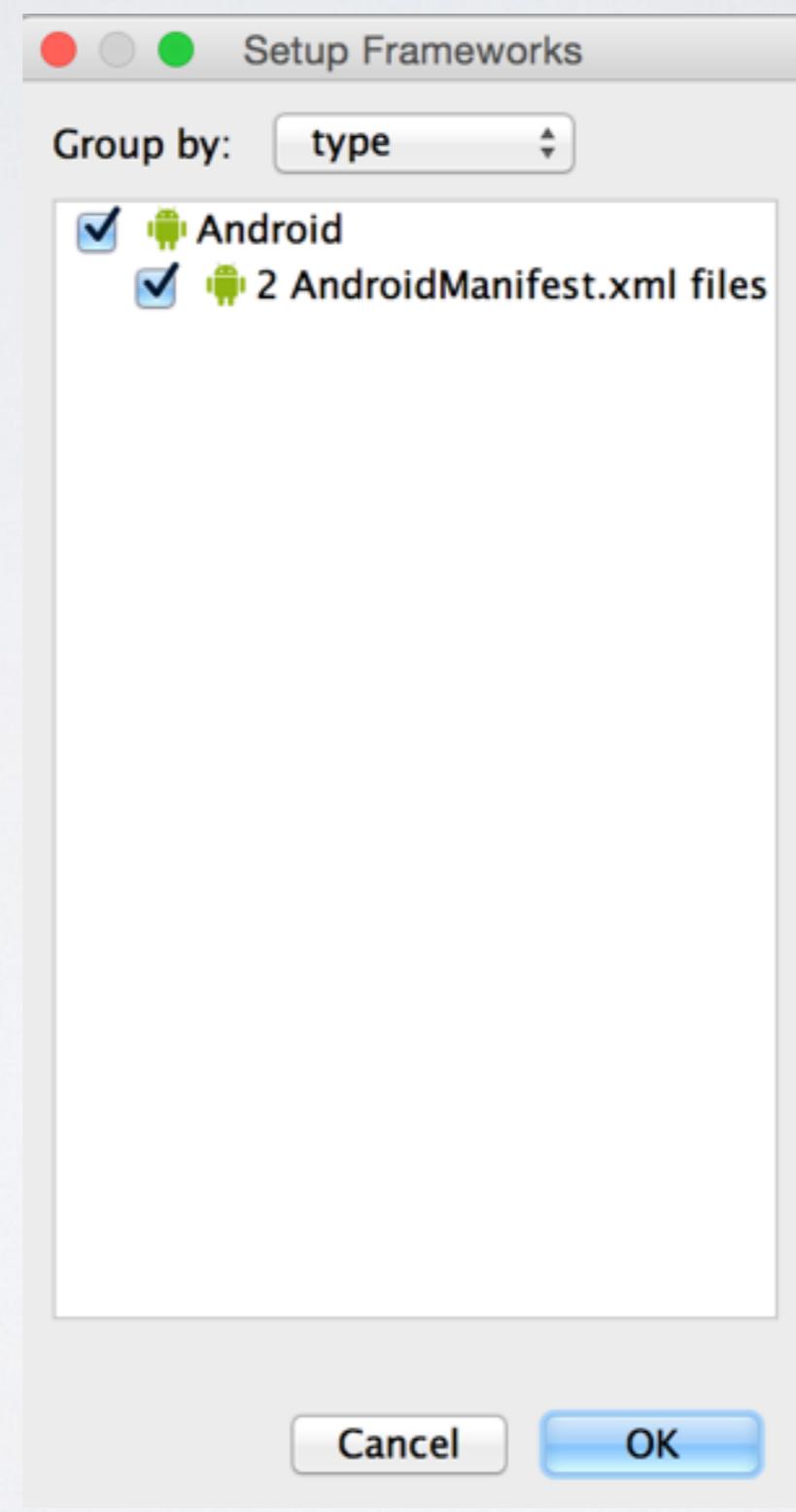
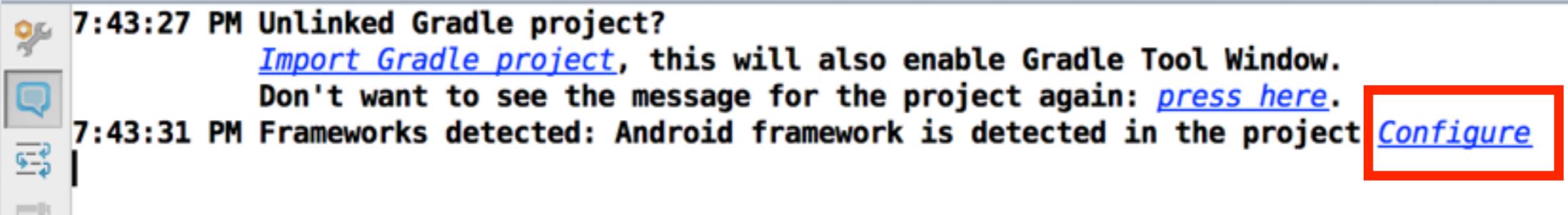
`phonegap platform add android`



`cordova platform add android`



Event Log



Build Run Tools VCS Window

Make Project ⌘F9

Make Module 'android' ⌘⇧F9

Compile Module 'android'

Rebuild Project

Generate Ant Build...

Build Artifacts...

Generate Signed APK...

Deploy Module to App Engine...



Generate Signed APK Wizard

Module:

 android



Cancel

Previous

Next



Generate Signed APK Wizard

Key store path:

Create new...

Choose existing...

Key store password:

Key alias:

 ...

Key password:

Remember password



Cancel

Previous

Next

New Key Store

Key store path:

Password: Confirm:

Key

Alias:

Password: Confirm:

Validity (years):

Certificate

First and Last Name:

Organizational Unit:

Organization:

City or Locality:

State or Province:

Country Code (XX):

Cancel

OK



Generate Signed APK Wizard

Key store path:

Users/loiane/Downloads/minhaKeyAndroid.jks

Create new...

Choose existing...

Key store password:

•••••

Key alias:

release_phonegap



Key password:

•••••

Remember password



Cancel

Previous

Next

Generate Signed APK Wizard

Destination APK path: **IHelloWorld/platforms/android/android.apk**

Run ProGuard

Config file paths:

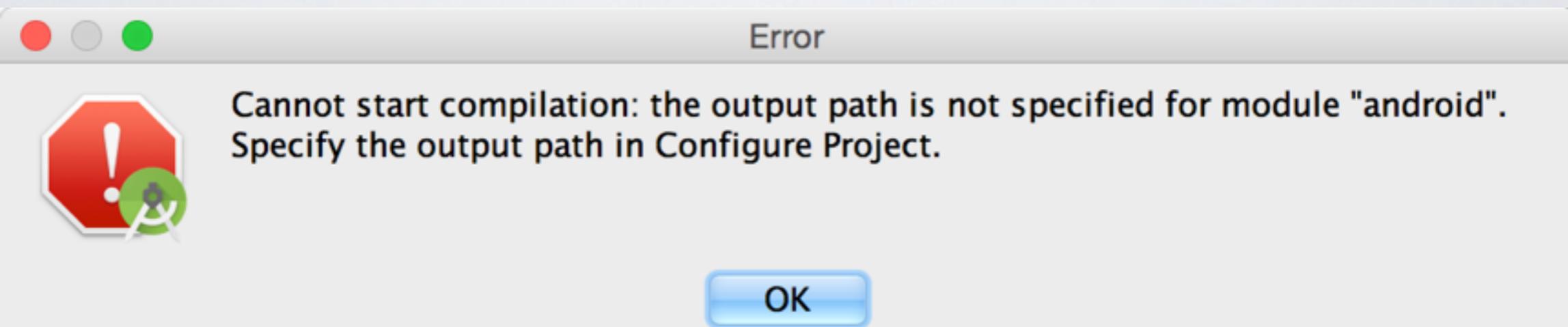
/Users/loiane/Library/Android/sdk/tools/proguard/proguard-android.tx

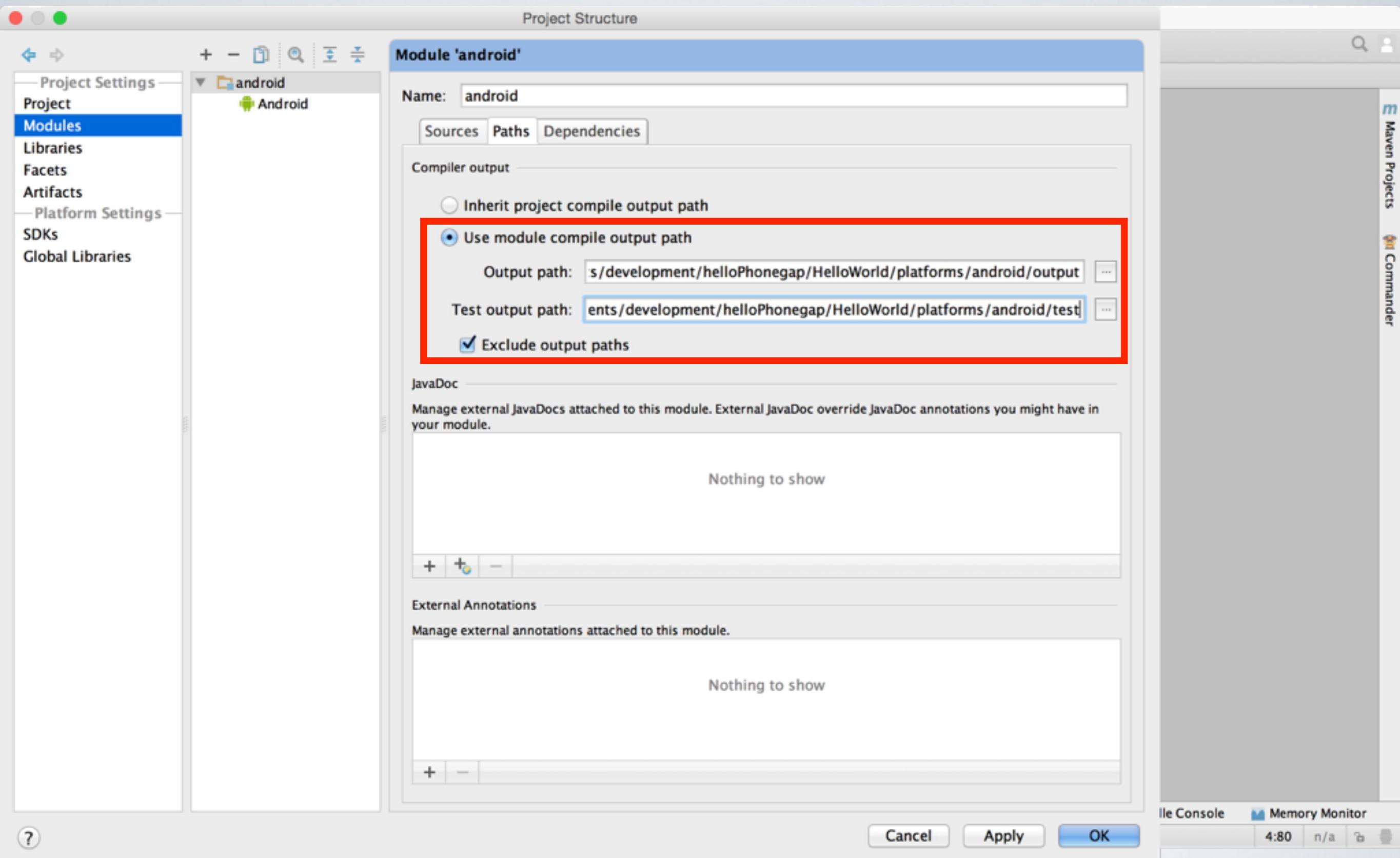


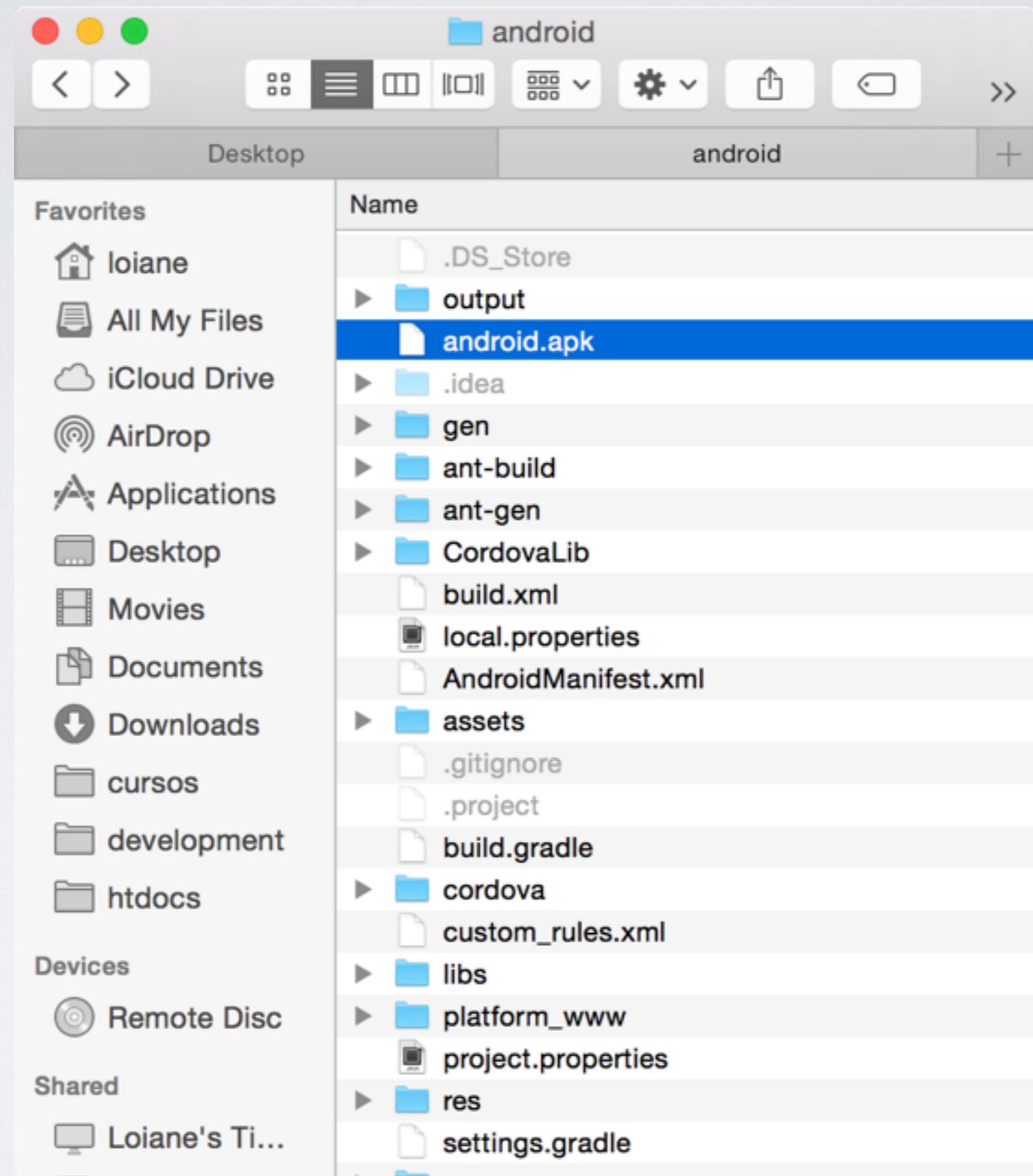
Cancel

Previous

Finish







Phonegap build

Passo 1: criar conta

<https://build.phonegap.com/>

	Free Plan	Paid Plan	Adobe Creative Cloud Membership ?
open source apps		∞ unlimited must be pulled from a public Github repo	
private apps ?	1	25	
max app size	50 MB	100 MB	1 GB
core cordova plugins		YES	
* a list of these plugins is here			
third party plugins		YES	
* includes plugins from plugins.cordova.io as well as our own repository			
upload plugins	NO	YES	
* includes plugins only you can use			
collaborators		∞ unlimited invite people to your app as either developers or testers	
	completely free	starting at \$9.99/mo	sign in with your Adobe ID

Passo 2: config.xml

http://docs.build.phonegap.com/en_US/configuring_basics.md.html#The%20Basics

http://configap.com/

ConfigAP

General Settings Advanced Settings App Icons Splash Screens Permissions Developer Info Plugins

Source Directory: /Users/loiane/Documents/Development/helloPhonegap/ Choose...

Application Name: PhonegapApp

Application Id: com.loiane.phonegap

Application Description:
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Build Platforms: iOS Android Windows Phone BlackBerry Symbian webOS

App Version: 1.0

Version Code: 1.0

PhoneGap Version: 3.7.0

Orientation: default

Target Device Type: universal

Save file...

ConfigAP

General Settings Advanced Settings App Icons Splash Screens Permissions Developer Info Plugins

API Plugins

Accelerometer Battery Camera Capture Compass Connection Contacts Console Device Enable All Plug-Ins

File FileWriter Geolocation Globalization InApp Browser Media Notification SplashScreen Vibration

Available Plugins

Barcode Scanner
Version:
 ChildBrowser
 Facebook Connect
Facebook App Id:
Facebook App Name:
Version:
 Fast Canvas
Version:
 Google Analytics
Version:
 Push Notifications
Version:
 Push Whoosh
Version:

Save file...



PhonegapAPP

Favorites

- loiane
- All My Files
- iCloud D...
- AirDrop
- Applicati...
- Desktop
- Movies
- Documents
- Downloads
- cursos
- develop...
- htdocs

Devices

Name

- www
 - spec.html
 - spec
 - res
 - js
 - index.html
 - img
 - icon.png
 - css
 - config.xml
 - plugins
 - platforms
 - hooks
 - config.xml
 - .DS_Store
 - .cordova

A large red arrow points from the bottom config.xml file in the list to the top config.xml file in the list, highlighting the inconsistency between them.



GitHub

Your apps

open-source

private

Close

find existing repo / paste .git repo



branch or tag (optional)

Pull from .git repository

We only allow open-source apps to be built from public GitHub repos

Your apps

open-source

private

Close

find existing repo / paste .git repo



branch or tag (optional)

Pull from .git repository

Upload a .zip file



phonegap remote build android

```
● ● ●          hello – bash – 68x16
Loiane:hello loiane$ phonegap remote build android
[phonegap] PhoneGap/Build Login
[phonegap] Sign up at build.phonegap.com
[warning] GitHub accounts are unsupported
[prompt] enter username: loiane
[prompt] enter password:
[phonegap] logged in as loiane
[phonegap] compressing the app...
[phonegap] uploading the app...
[phonegap] building the app...
[phonegap] Android build complete
Loiane:hello loiane$ █
```



HelloWorld

Hello World sample application that responds to the deviceready event.

iOS



Update code

Rebuild all

App ID
1363113

Version
1.0.0

PhoneGap
3.6.3

Owned by
loianeg@gmail.com

Source
zip package

Last built (2)
1 minute



private

Enviando para app Stores



HelloWorld-debug.apk

<https://s3.amazonaws.com/android.phonegap/slicehost-production/apps/f07623fc-ca81-1...>

Show in Finder

Remove from list

UPLOAD NEW APK TO PRODUCTION

Upload failed

You uploaded a debuggable APK. For security reasons you need to disable debugging before it can be published in Google Play. [Learn more about debuggable APKs.](#)

You uploaded an APK that was signed in debug mode. You need to sign your APK in release mode. [Learn more about signing.](#)

Upload another APK

Cancel



development – bash – 80x29

```
Loiane:development loiane$ keytool -genkey -v -keystore minhaKey.keystore -alias  
release_phonegap -keyalg RSA -keysize 2048 -validity 10000
```

Enter keystore password:

Re-enter new password:

What is your first and last name?

[Unknown]: Loiane Groner

What is the name of your organizational unit?

[Unknown]: loiane

What is the name of your organization?

[Unknown]: loiane.com

What is the name of your City or Locality?

[Unknown]: Sao Paulo

What is the name of your State or Province?

[Unknown]: SP

What is the two-letter country code for this unit?

[Unknown]: BR

Is CN=Loiane Groner, OU=loiane, O=loiane.com, L=Sao Paulo, ST=SP, C=BR correct?

[no]: y

Generating 2,048 bit RSA key pair and self-signed certificate (SHA256withRSA) with a validity of 10,000 days

for: CN=Loiane Groner, OU=loiane, O=loiane.com, L=Sao Paulo, ST=SP, C=BR

Enter key password for <release_phonegap>

(RETURN if same as keystore password):

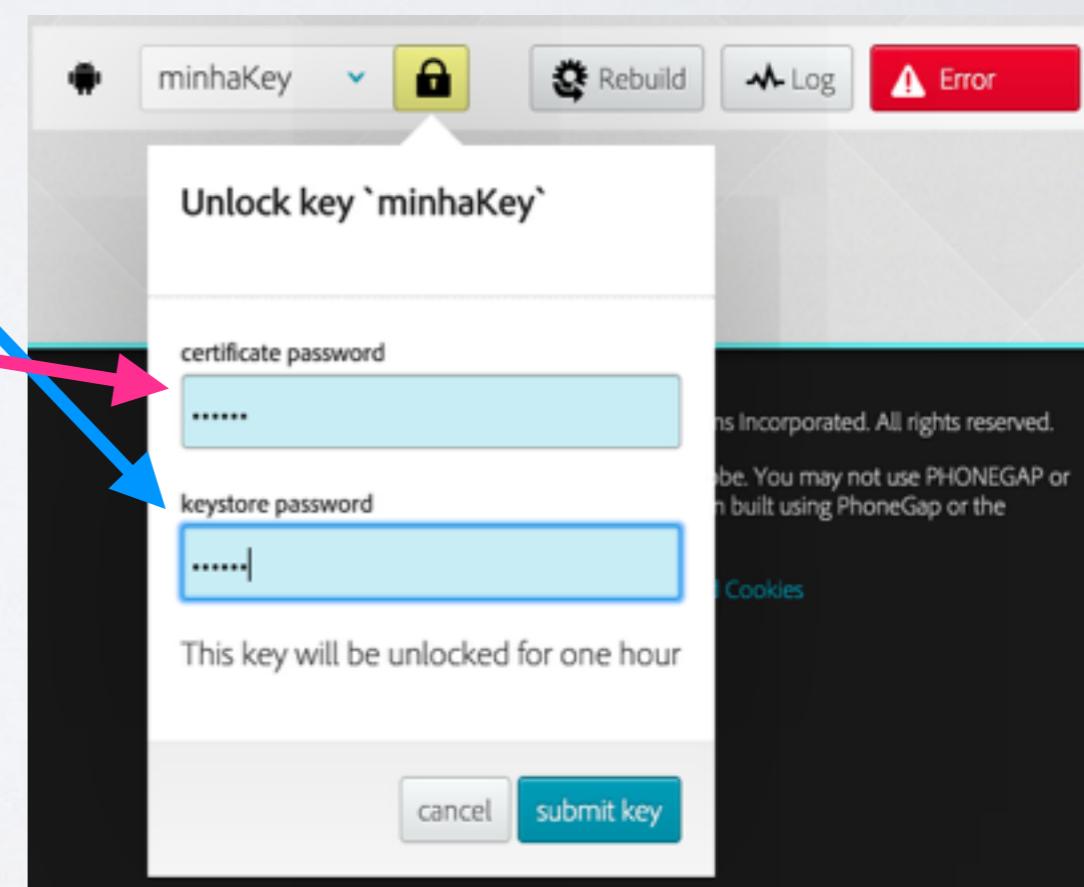
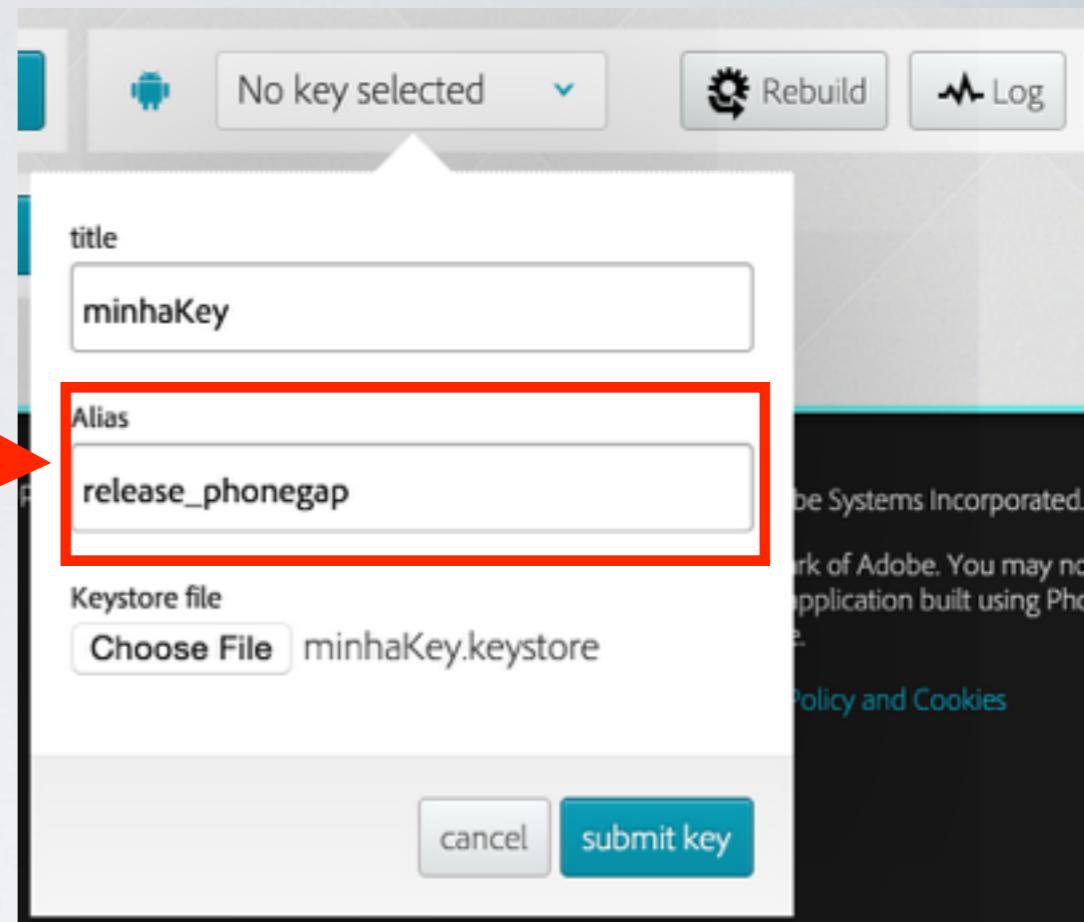
Re-enter new password:

[Storing minhaKey.keystore]

Loiane:development loiane\$

```
Loiane:development loiane$ keytool -genkey -v -keystore minhaKey.keystore -alias release_phonegap -keyalg RSA -keysize 2048 -validity 10000
Enter Keystore password: 
Re-enter new password: 
What is your first and last name?
[Unknown]: Loiane Groner
What is the name of your organizational unit?
[Unknown]: loiane
What is the name of your organization?
[Unknown]: loiane.com
What is the name of your City or Locality?
[Unknown]: Sao Paulo
What is the name of your State or Province?
[Unknown]: SP
What is the two-letter country code for this unit?
[Unknown]: BR
Is CN=Loiane Groner, OU=loiane, O=loiane.com, L=Sao Paulo, ST=SP, C=BR correct?
[no]: y

Generating 2,048 bit RSA key pair and self-signed certificate (SHA256withRSA) with a validity of 10,000 days
for: CN=Loiane Groner, OU=loiane, O=loiane.com, L=Sao Paulo, ST=SP, C=BR
Enter key password for <release_phonegap>
(RETURN if same as keystore password): 
Re-enter new password: 
[Storing minhaKey.keystore]
Loiane:development loiane$
```





minhaKey



Rebuild



Log



apk



HelloWorld-release.apk

<https://s3.amazonaws.com/android.phonegap/slicehost-production/apps/f07623fc-ca81-1...>[Show in Finder](#)[Remove from list](#)

APK

[Switch to advanced mode](#)

PRODUCTION

Version

1

BETA TESTING

Set up Beta testing for
your app

ALPHA TESTING

Set up Alpha testing for
your app

PRODUCTION CONFIGURATION

[Upload new APK to Production](#)

CURRENT APK uploaded on Mar 14, 2015, 2:51:00 PM

Supported devices

7670[See list](#)

Excluded devices

0[Manage excluded devices](#)

Exemplos de Apps

iOS Apps

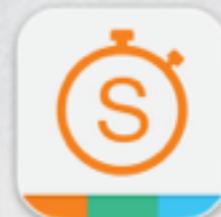
[See more ▶](#)



Interval
by Jason Stockton



GFree - Gluten Free I...
by Josh Buchea



Sworkit
by Nexercise

Android Apps

[See more ▶](#)



Tackk - Create and C...
by Tackk Inc.



Dolly
by Dolly, Inc.



KustomNote
by KustomNote, Inc.

Blackberry Apps

[See more ▶](#)



Easy Effects
by Complitech Solution...



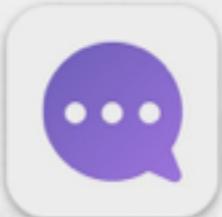
hotlist
by NO2DESIGNCO.



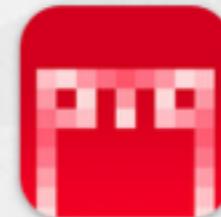
TitanFile
by TitanFile Inc

Windows Phone Apps

[See more ▶](#)



Indoona
by Tiscali Italia SpA



Path to Palindromes
by Adept



The Home of Golf
by Precedent

<http://phonegap.com/app/>



Orange Palestre

By [Davide Senatore](#)



Zero - A Numbers
Puzzle Game

By [Manuel Stadler](#)



ATS Pest Finder

By [Scott Steinbeck](#)



Estimated

By [David Manske](#)



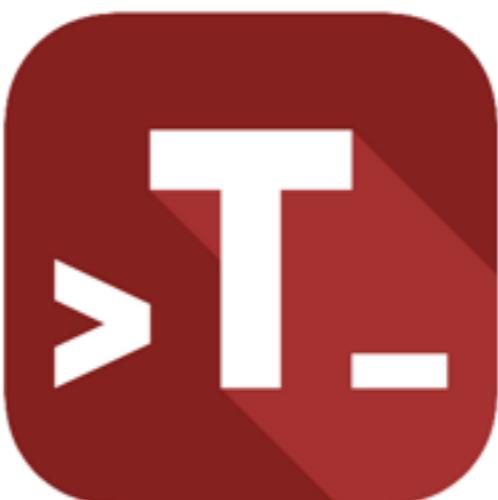
WeWork Referral

By [Hanjie Ji](#)



Servy

By [Julien Wormser](#)



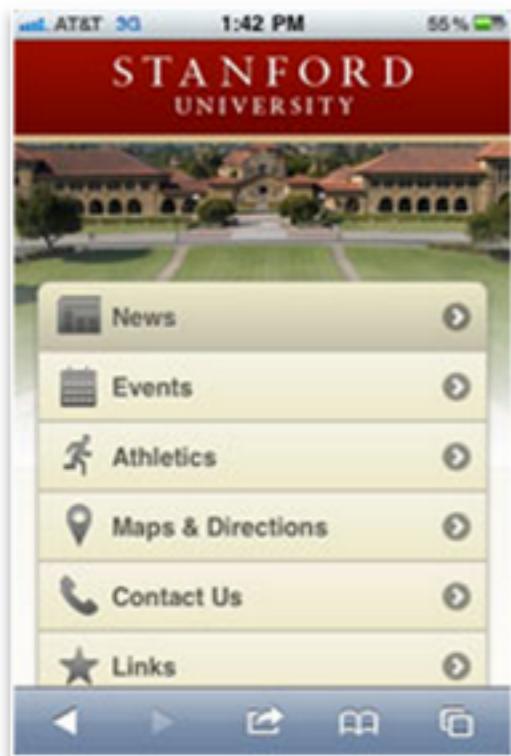
Trevor: Continuous
Integration on the go

By [Emmanouil Konstantinidis](#)



no bird

By [Frédéric Massart](#)



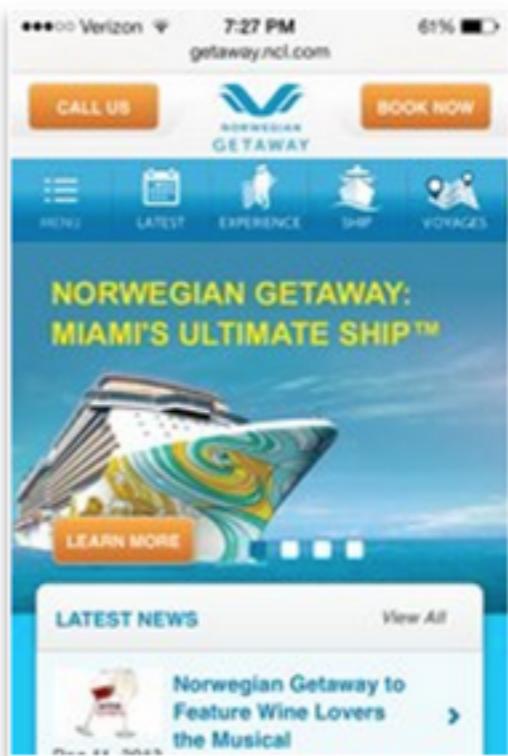
Stanford



American Century



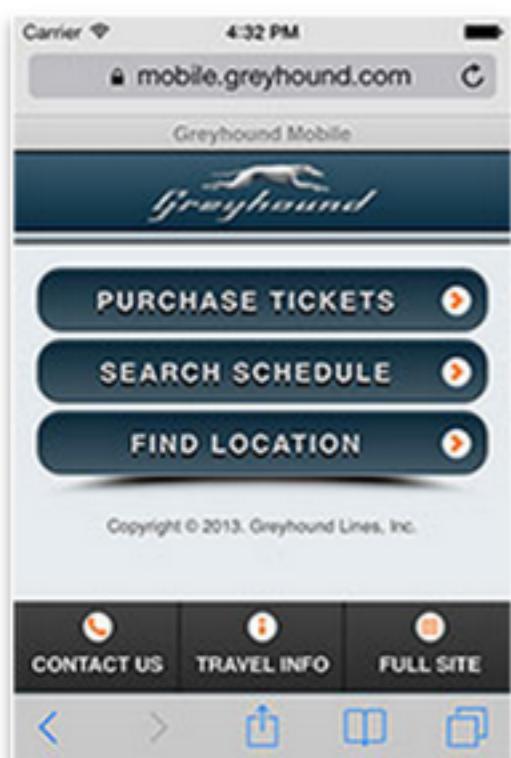
Bownty



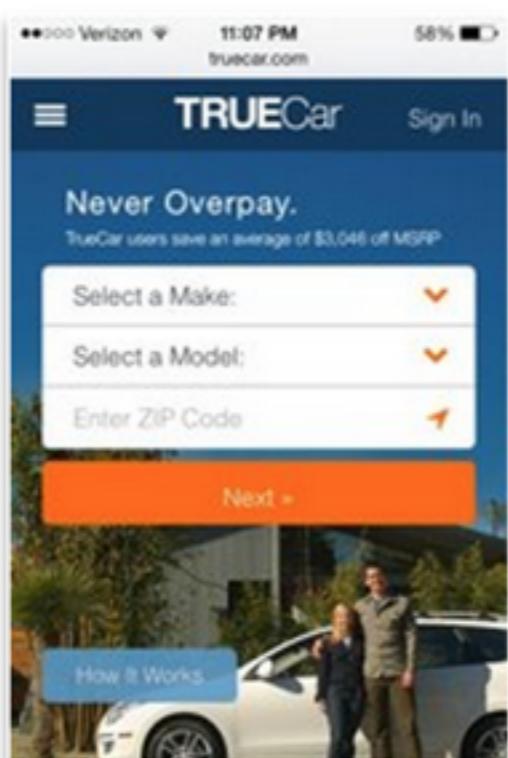
Norwegian Getaway



insurance market



Greyhound



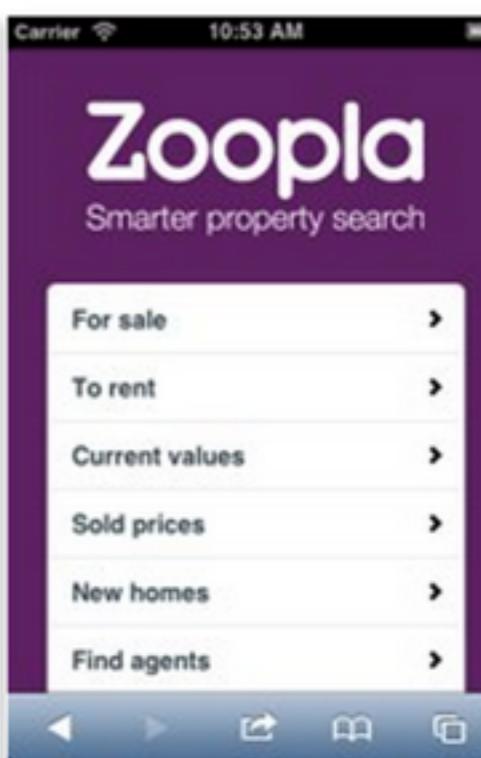
Truecar



LendingTree



Sam Adams Brewery



Zoopla

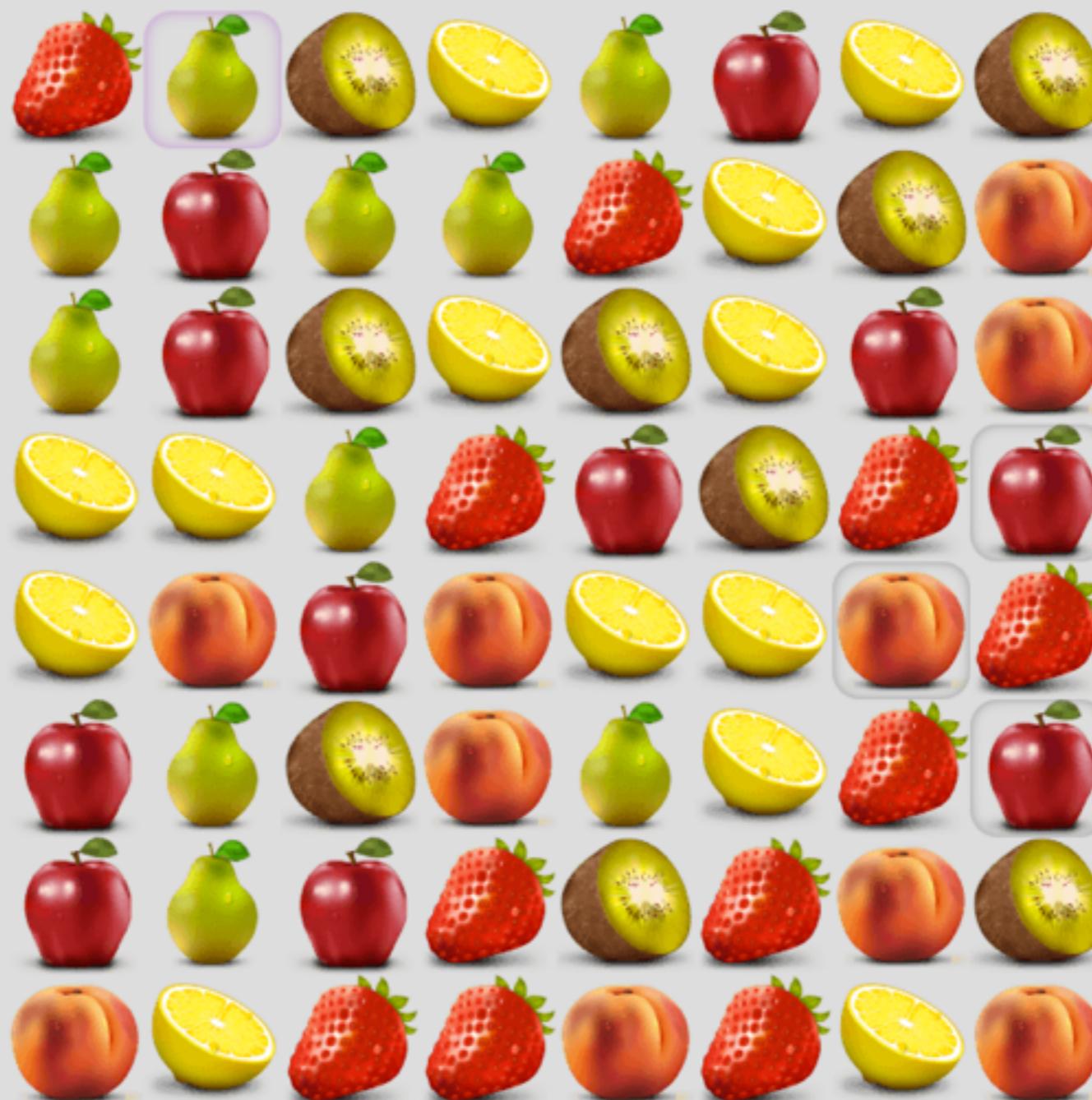
Fruit Salad

Now on
Google Play!



Best score : 0
Score : 30

Best combo : 0
Combo : 1



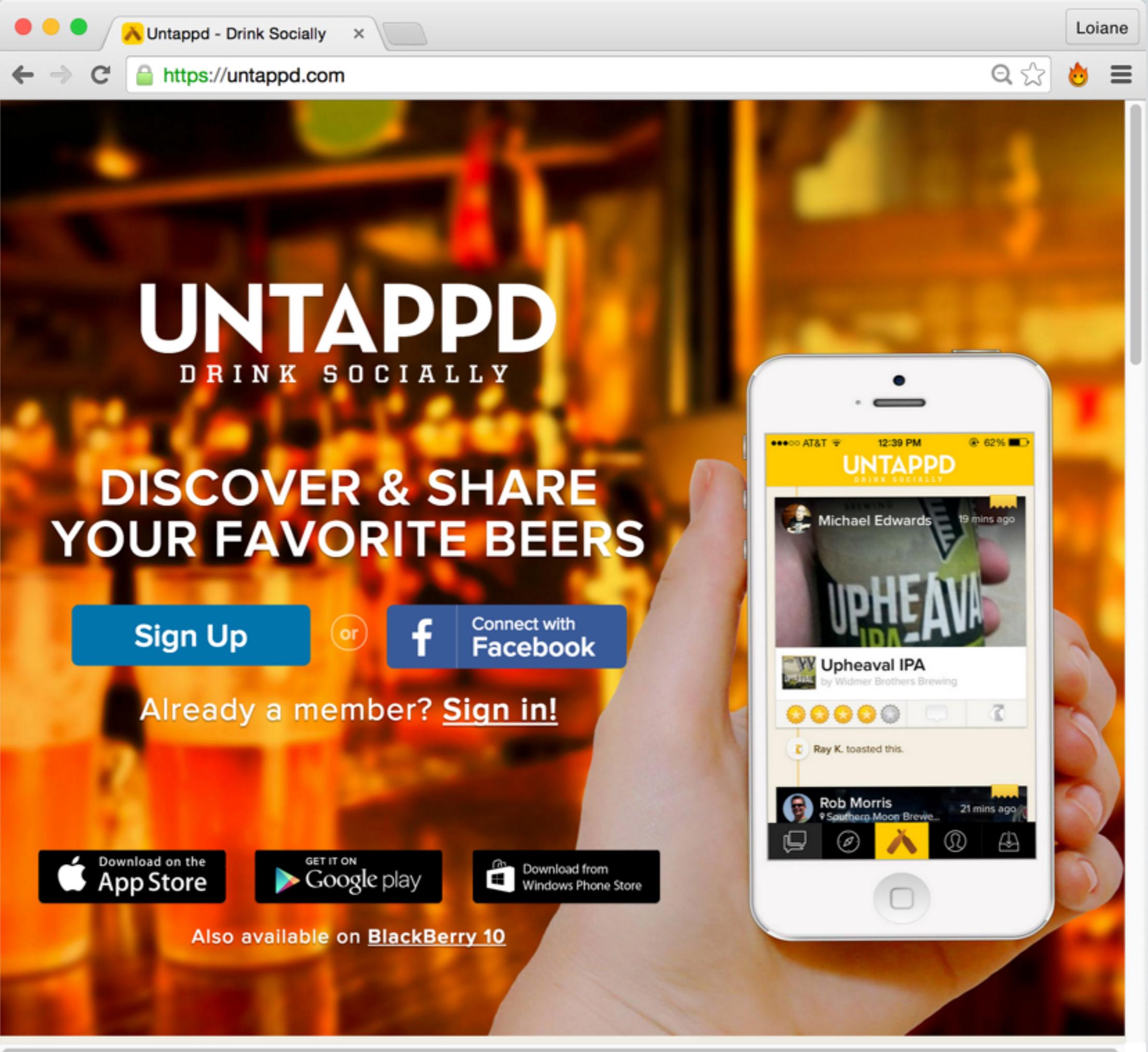
Play it on
your Phone!



Untitled - Untappd - Drink Socially

Loiane

https://untappd.com



The image shows the Untappd website homepage on the left and a hand holding a smartphone displaying the Untappd mobile application on the right. The website background features a blurred image of a bar or brewery interior. The mobile app screen shows a feed of beer reviews and ratings.

UNTAPPD
DRINK SOCIALLY

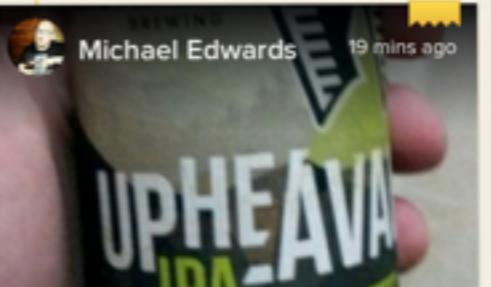
DISCOVER & SHARE
YOUR FAVORITE BEERS

[Sign Up](#) or [Connect with Facebook](#)

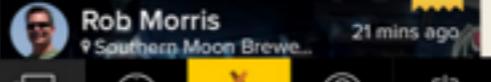
Already a member? [Sign in!](#)

Download on the [App Store](#) | GET IT ON [Google play](#) | Download from [Windows Phone Store](#)

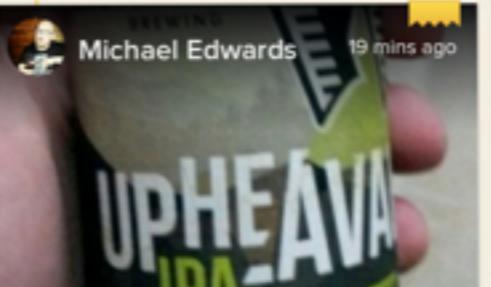
Also available on [BlackBerry 10](#)

Michael Edwards 19 mins ago
 Upheaval IPA by Widmer Brothers Brewing

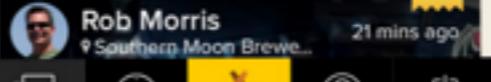
Ray K. toasted this.

Rob Morris 21 mins ago
 Southern Moon Breweries

UNTAPPD DRINK SOCIALLY

Michael Edwards 19 mins ago
 Upheaval IPA by Widmer Brothers Brewing

Ray K. toasted this.

Rob Morris 21 mins ago
 Southern Moon Breweries

Bibliotecas para jogos: HTML 5

<http://www.slideshare.net/talitapagani/html5-gamesusinglibraries>



KEEP
CALM
E
BOM
CÓDIGO



<http://loiane.com>



<fb.com/loianegroner>



@loiane



<https://github.com/loiane>



<youtube.com/user/Loianeg>