

# Desarrollo de Aplicaciones móviles

Angular Guatemala Meetup #3



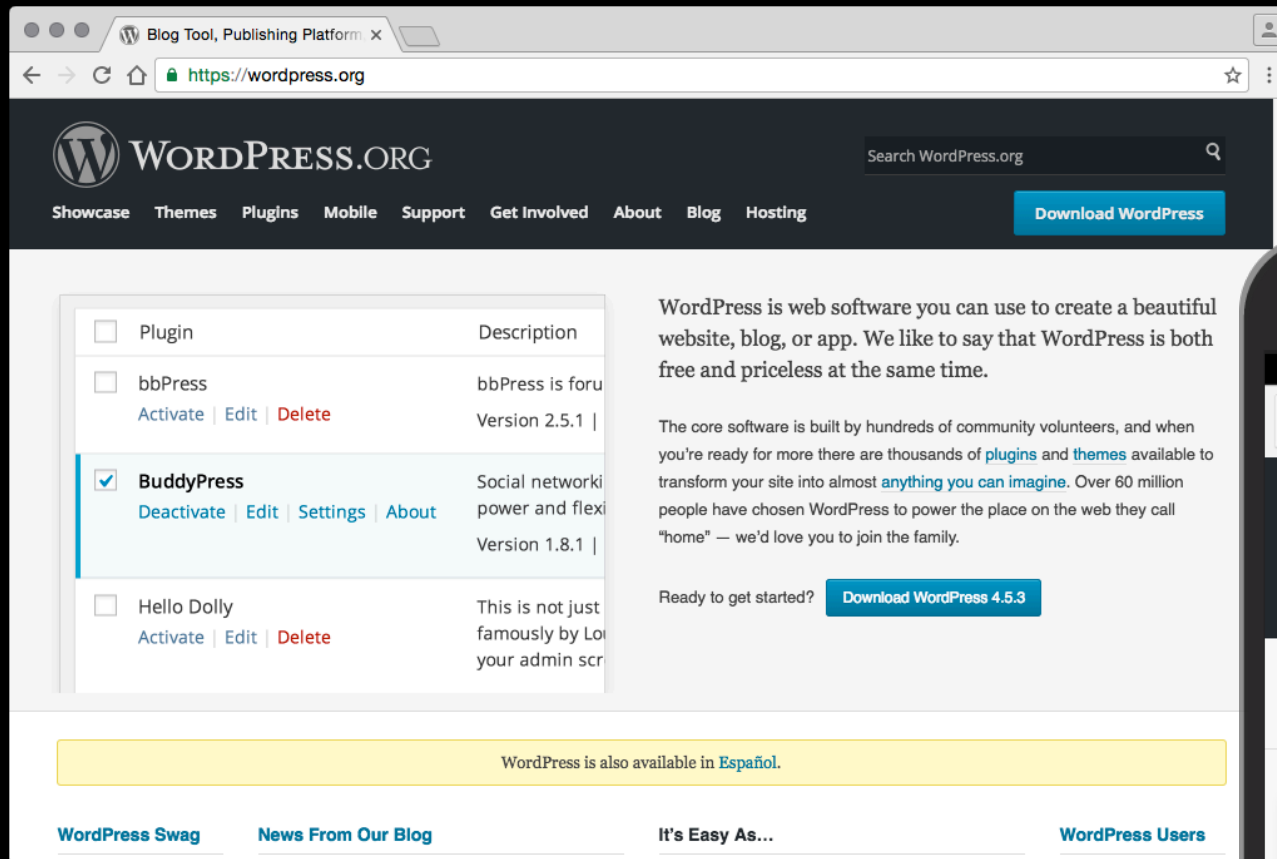
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# Agenda

- Revisar algunos conceptos
  - Web / Web App / App
  - App Nativas / App Híbridas (webView)
  - jQuery / jQueryMobile
  - PhoneGap / Cordova
  - Ionic
  - Dev Tools
- Demo (Desarrollo de App real), usando:
  - Ionic 1 (Angular 1)
  - una plantilla (
  - un plugin (splashscreen / icon)

# Web

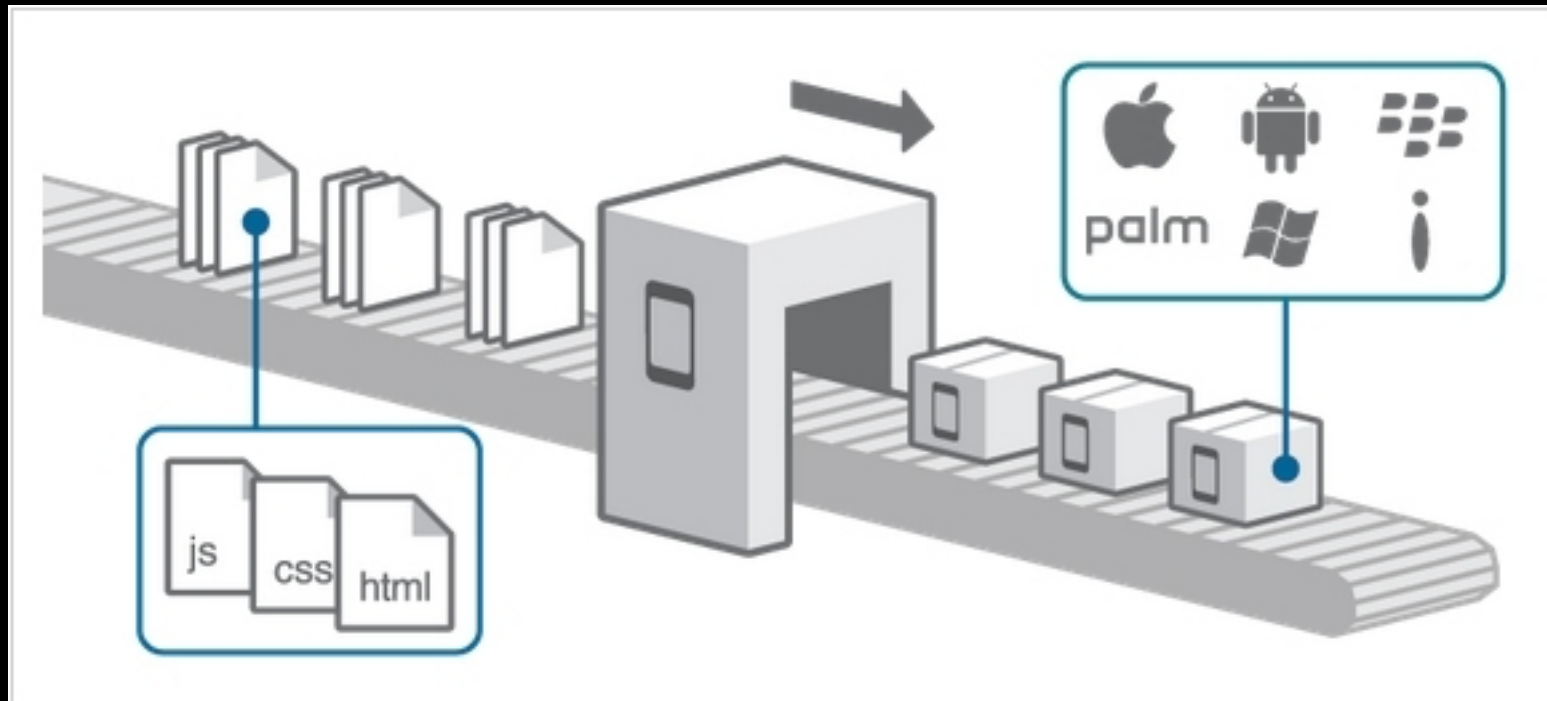


# Web App



OJO: Todos los “smartphones”  
tienen un navegador

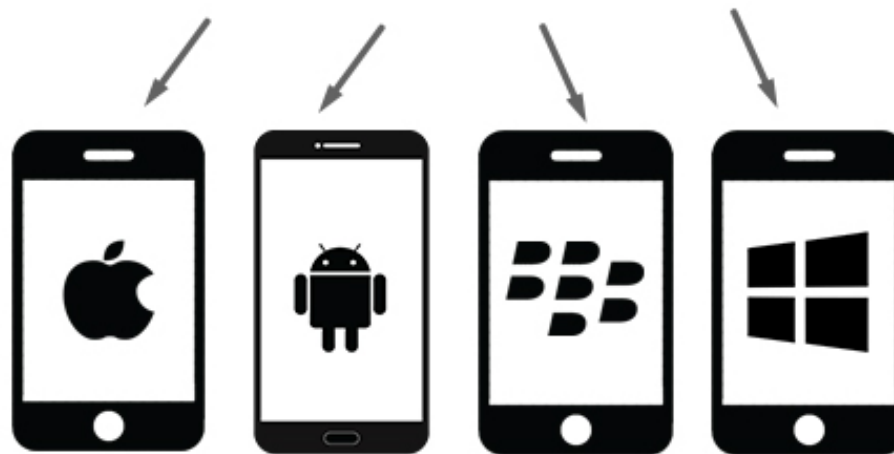
# Nace PhoneGap



WEB APP



PhoneGap



Así eran las  
primeras “apps”:  
**Horribles !**



Conocen jQuery ?

Conocen  
jQueryMobile ?





# JQUERY MOBILE: TOUCH-OPTIMIZED WEB FRAMEWORK FOR SMART- PHONES & TABLETS



# Smartphone Mobile UI elements

v.0.3 - August 11, 2010

flamant group inc.

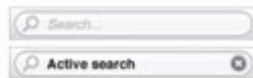
## Buttons



## Toolbar



## Search bar



## Connected tabs



## Disconnected tab bar



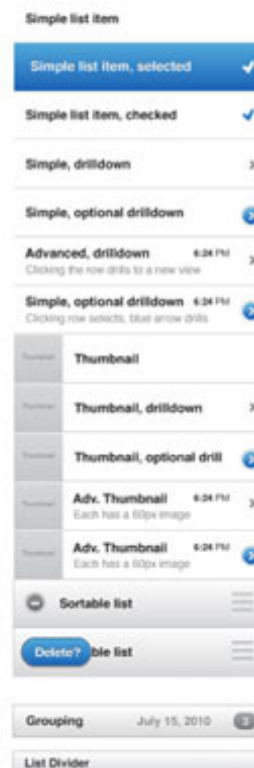
## Accordion



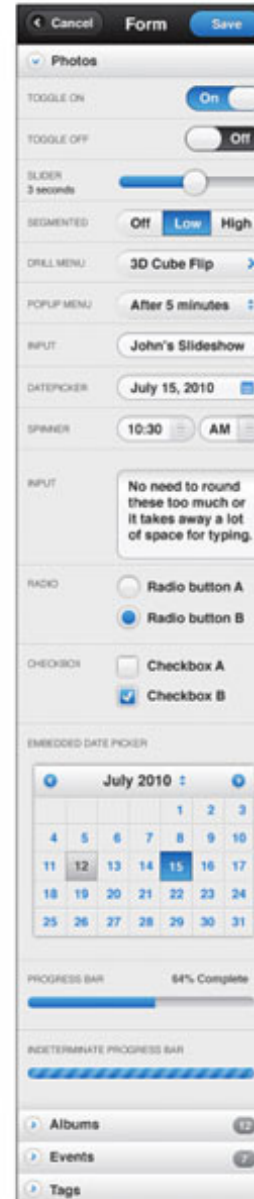
## List view



## List item variations

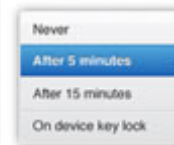


## Edit panel & form elements



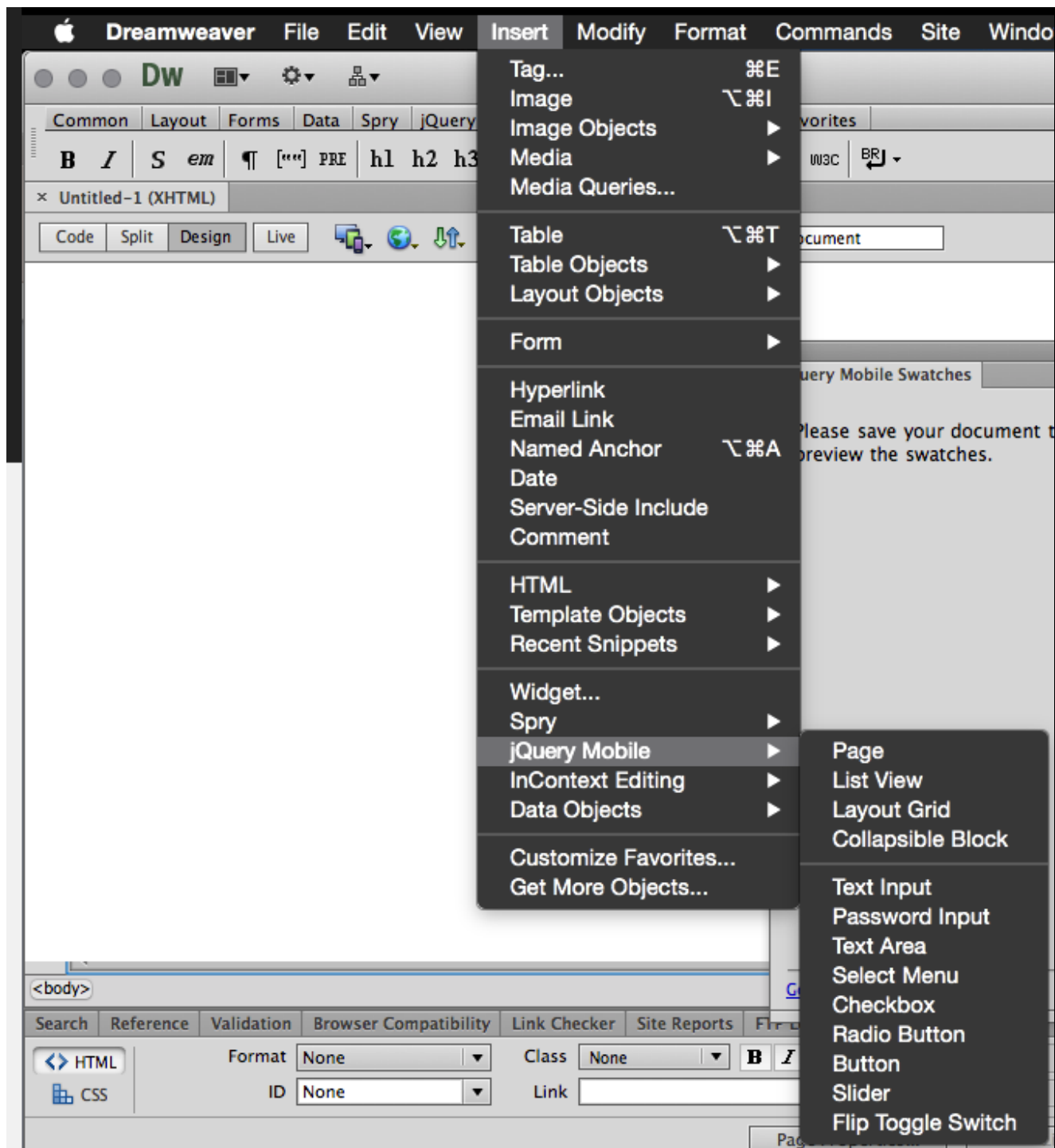
## Popup menu

(4-6 items max, drill page for more)



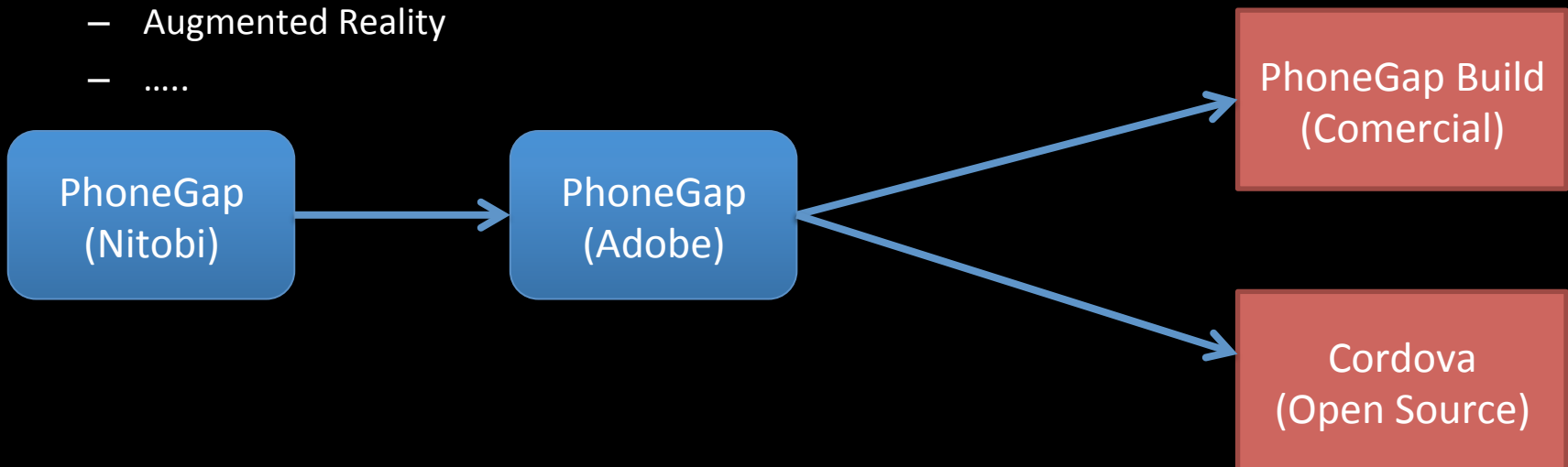
## Dialog





# PhoneGap

- La App es un navegador web interno (web view)
- Permite interactuar con el dispositivo
  - Cámara,
  - Acelerómetro,
  - Contactos,
  - GPS,
  - Push Notification
  - Augmented Reality
  - .....



# App Nativas

**Android**

Java  
(Android Studio)

**iOS**

ObjectiveC / Swift  
(xCode)

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WindowsPhone ?

Blackberry ?

Palm ?

# Ionic Workflow

Editar  
JS/CSS/HTML

Probar en  
Localhost:  
8100

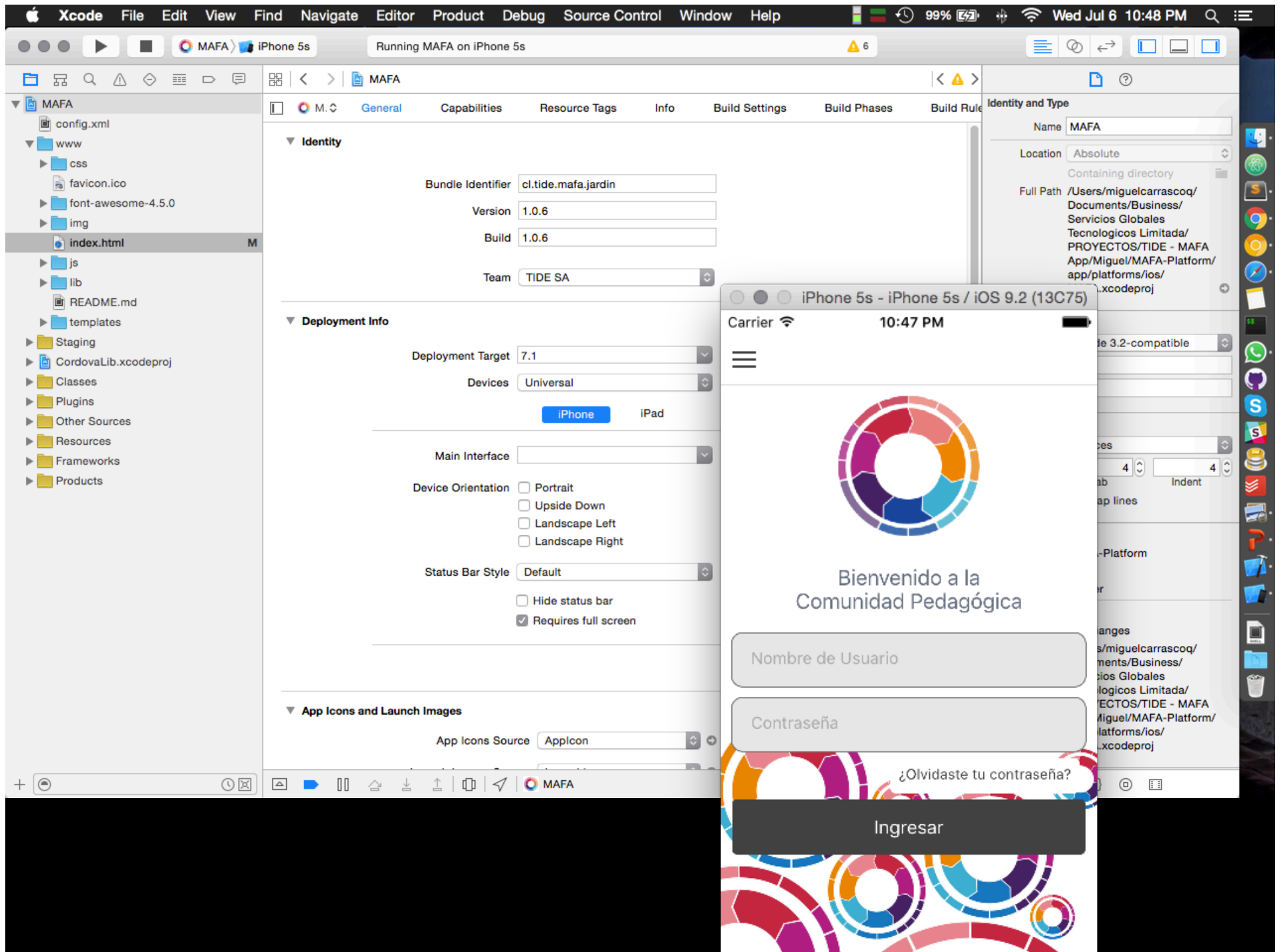
Compilar

Probar en  
Dispositivo

The screenshot displays the Ionic workflow across three main components:

- Code Editor (Left):** Shows the `index.html` file in a text editor. The code includes the `<DOCTYPE html>` declaration, `<html>` and `<body>` tags, and various `<link>` and `<script>` tags for styling and scripts.
- Terminal (Top Right):** Displays the output of the `ionic build` command. It shows "BUILD SUCCESSFUL" and the total time of 31.407 seconds. The built APK is located at `/Users/miguelcarrascoq/Documents/Business/Servicios Globales Tecnologicos Limitada/PROYECTOS/TID E - MAFA App/Miguel/MAFA-Platform/app/platforms/android/build/outputs/apk/android-debug.apk`.
- Web Browser (Bottom Left):** Shows the application running on a local host at `localhost:8100/#/app/login`. The interface includes a MAFA logo, a login form with fields for "Nombre de Usuario" and "Contraseña", and a list of menu items: "INFORMACIÓN", "COMUNIDAD PEDAGÓGICA", "DOCUMENTACIÓN PEDAGÓGICA", "DOCUMENTACIÓN EN PREPARACIÓN", and "CUENTA".





jQueryMobile  
(UI)



jQuery

Ionic  
(UI + CLI)











V1 -> Angular1

V2 -> Angular2



### List Icons

-  Check mail
-  Call Ma 
-  Record album Grammy
-  Friends 0
- Activities**
-  Breaking Bad Blue, yellow, pink
-  Music JT
-  Games Super Mario

### Toggle

- HTML5 ☒
- CSS3 ☒
- Flashplayer ☐
- Java Applets ☐
- JavaScript ☒
- Silverlight ☐
- Web Components ☐

### Range



#### Ranges In A List



### Striped Style Tabs



### Stacked Labels

First Name

John

Last Name

Suhr

Email

john@suhr.com

Create Account

### Small and Large Buttons

button-light

button-stable

button-positive

button-calm

button-balanced

button-energized

button-assertive

button-royal

## IonicFramework.com (openSource)

- UI
- CLI

## Ionic.io (Comercial)

- UI
- CLI
- Push Notfication
- User Authentication
- Native Build (iOS / Android)
- Live Update (repo)

- Creator
- Marketplace
- Playground
- Board Jobs
- Showcase
- Shop ...

# Ionic CLI

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

```
$ ionic start myApp [blank | tabs | sidemenu]
```

```
$ ionic serve
```

```
$ ionic platform [add | remove] [android | ios]
```

```
$ ionic plugin [add | remove] [cordova-plugin-splashscreen ...]
```

```
$ ionic resources [ios | android] [--icon | --splash]
```

```
$ ionic build android
```

```
$ adb install -r platforms/android/build/outputs/apk/android-debug.apk
```

# Dev Tools

- Visual Studio Code
- Chrome (Canary)
- Ionic CLI
- ~~Emulator Android~~ GenyMotion

Manos a la obra...

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