

# Hybrid mobile development with Ionic Framework

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# Native vs Hybrid



## **Native**

- Proficiency in each platform required
- Entirely separate code bases
- Time consuming & expensive development
- More Platforms. More Problems.

## **Hybrid Apps**

- HTML5 that acts like native
- Direct access to native APIs
- Familiar web dev environment
- Develop a single code base
- reuse code between platforms

# Native vs Hybrid

## Why still **native sdk**

- Common UI Views for better user experience
- Navigation and history stack
- Transitions
- It offers full access to the mobile platform

## and not **web sdk**

- Doesn't offer full access to the mobile platform
- Doesn't provide rich, native-style UI components and interactions
- You'll probably spend way too much time bringing native look and feel

# Native vs Hybrid

## Facebook Biggest Mistake



The screenshot shows a news article from TCTV News. The article is titled "Mark Zuckerberg: Our Biggest Mistake Was Betting Too Much On HTML5" and is dated September 11, 2012, by Drew Olanoff (@drew). The article features a photo of Mark Zuckerberg speaking at a podium. The text of the article discusses Facebook's mobile strategy and its reliance on HTML5.

**Facebook Biggest Mistake**

News TCTV Events Search

Social michael arrington Facebook Mark Zuckerberg Disrupt

### Mark Zuckerberg: Our Biggest Mistake Was Betting Too Much On HTML5

Posted Sep 11, 2012 by Drew Olanoff (@drew)

168 Share 1.5k in Share 0 Tweet 2,501

Next Story

Today, Mark Zuckerberg revealed that Facebook's mobile strategy relied too much on HTML5, rather than native applications.

Not only was this a big mistake with mobile, but Zuckerberg says that its biggest mistake period was the focus on HTML5. This is the first time that the Facebook CEO has openly admitted this, but things are looking good

## Check this out Zuck



The screenshot shows a mobile app interface for "fastbook". The app has a blue header with the "fastbook" logo and a "Login with Facebook" button. Below the button, there is a message about account access and a link to a blog post. The app is displayed on two smartphones, one in the foreground and one slightly behind it. To the right of the phones, there is a large orange shield icon with a white "S" inside, and the text "Built with" above it.

Check this out Zuck

Built with

fastbook

Login with Facebook

You will be asked for permission to access your account. Data will be accessed solely for display to you in fastbook.

Want to learn how this was built? Read the blog post.



## What

HTML5 framework for hybrid mobile apps.

Build on angular, sass.

Uses cordova/phonegap for creating running building deploying mobile apps.

Contains lots of mobile optimised css and javascript components.

Native like performance and beautifully designed

## Inspiration

Because they strongly believe HTML5 would rule on mobile over time, exactly as it has on the desktop.

# Why

- Native Focused
- Performance Obsessed
  - Hardware accelerated animations
  - Minimal DOM Manipulation
  - Remove 300ms tap delay
- Plain old CSS
- Sass
  - 80+ reusable mixins
- Boilerplate app structure ready for customization
- Preconfigured tools: Gulp, Sass, Bower, etc.

# Prerequisites Before starting

## Knowledge

- AngularJS ( UI router, custom directives, \$scope and controllers )
- Phonegap
- Sass ( optional )

## Other

- NodeJS

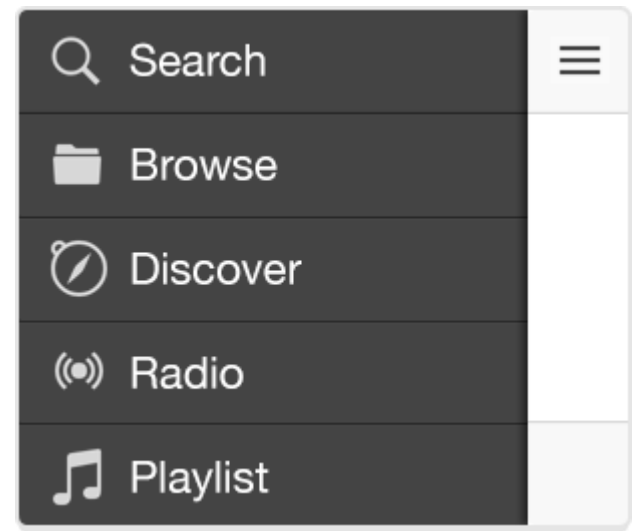
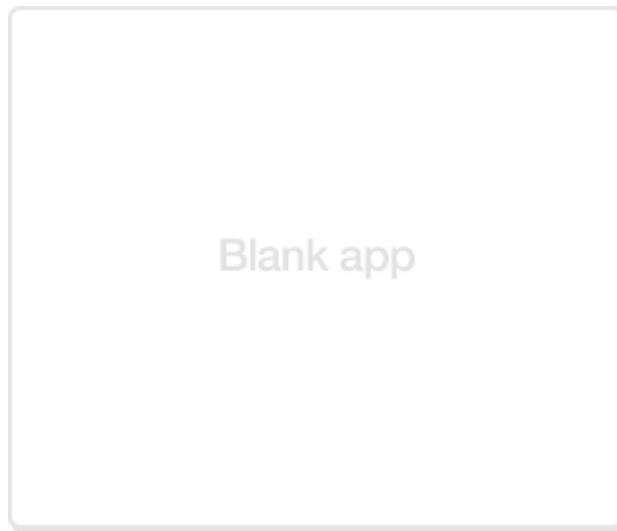


# Getting started / Install

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

# Getting started / Create

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



# Getting started / See

```
$ ionic serve [ --lab ]
```

# CLI

Common cli commands from cordova

```
$ ionic platform add [ android | ios ]  
$ ionic platform emulate [android | ios ]  
$ ionic platform build [android | ios ]
```

# Components

[ionic CSS components](#)

# Components

[ionic JS components](#)

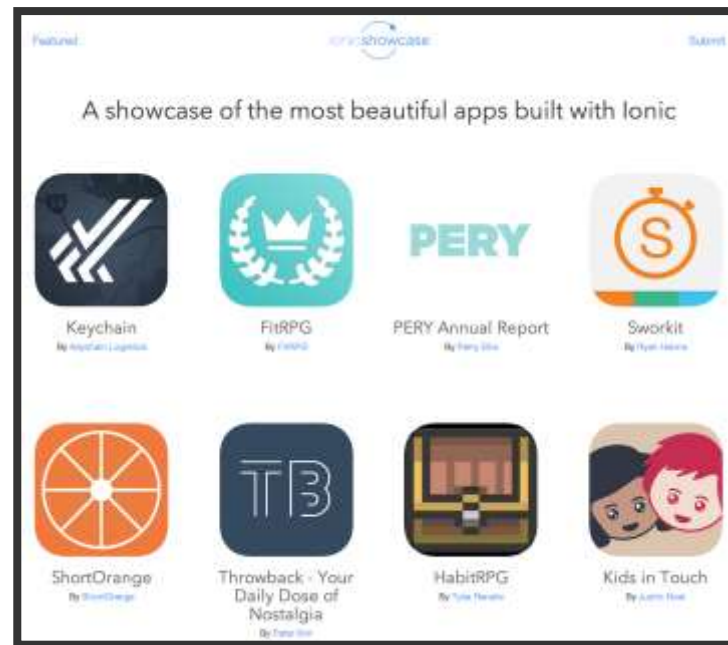
# Demo

<https://github.com/shyjal/First-ionic-app>

<http://codepen.io/ionic/public-list/>

# Showcase

## Ionic Showcase



[showcase.ionicframework.com](https://showcase.ionicframework.com)



# Platform access

## ngCordova

- Cordova with the power of angularJS
- A collection of 63+ AngularJS extensions on top of the Cordova API that make it easy to build, test, and deploy Cordova mobile apps with AngularJS.

# Tools and extras

[ionicons](#)

[ionicview](#)

Ionic crosswalk integration

[ionic creator](#)

Thank you