Basics of Cordova cli

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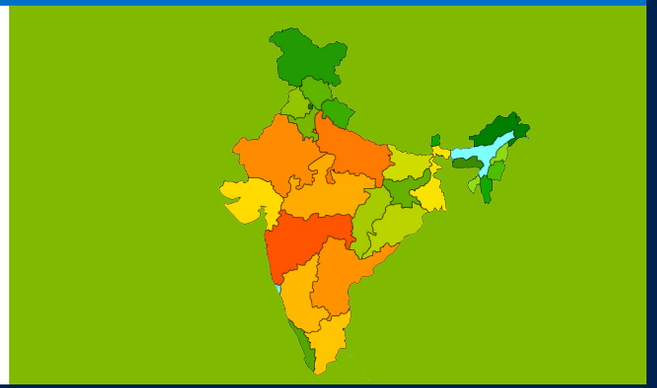


Agenda

- Types of Mobile Apps
- Introduction to Apache Cordova
- Basics of Cordova cli
- Motivations to go Hybrid
- Who is building Hybrid apps

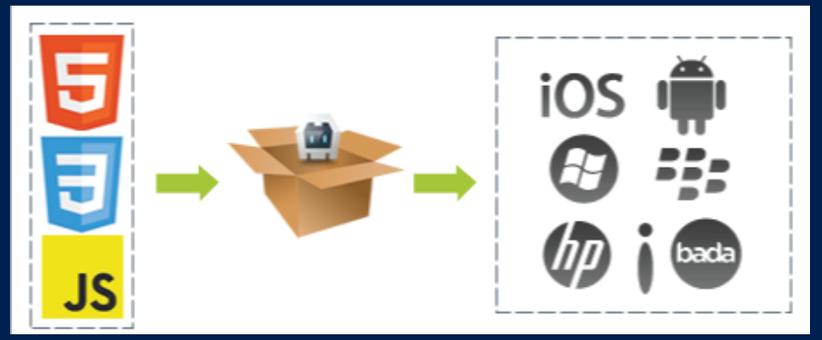
Types of Mobile Apps

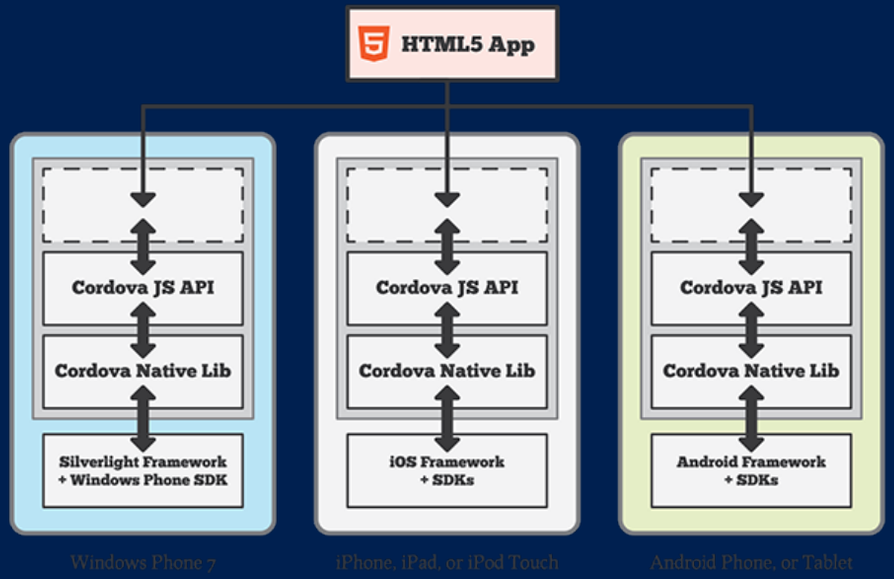
NATIVE
SINGLE PLATFORM
Full capability
HYBRID
NATIVE+HTML
Multiple platforms
HTML
Advanced UI interactions
Fastest performance
App store distribution
Access to native platform
App store distribution
Instant updates
Unrestricted distribution

Introduction to Cordova

Apache Cordova

Apache Cordova is a platform for building natively installed mobile applications using HTML, CSS & JS.

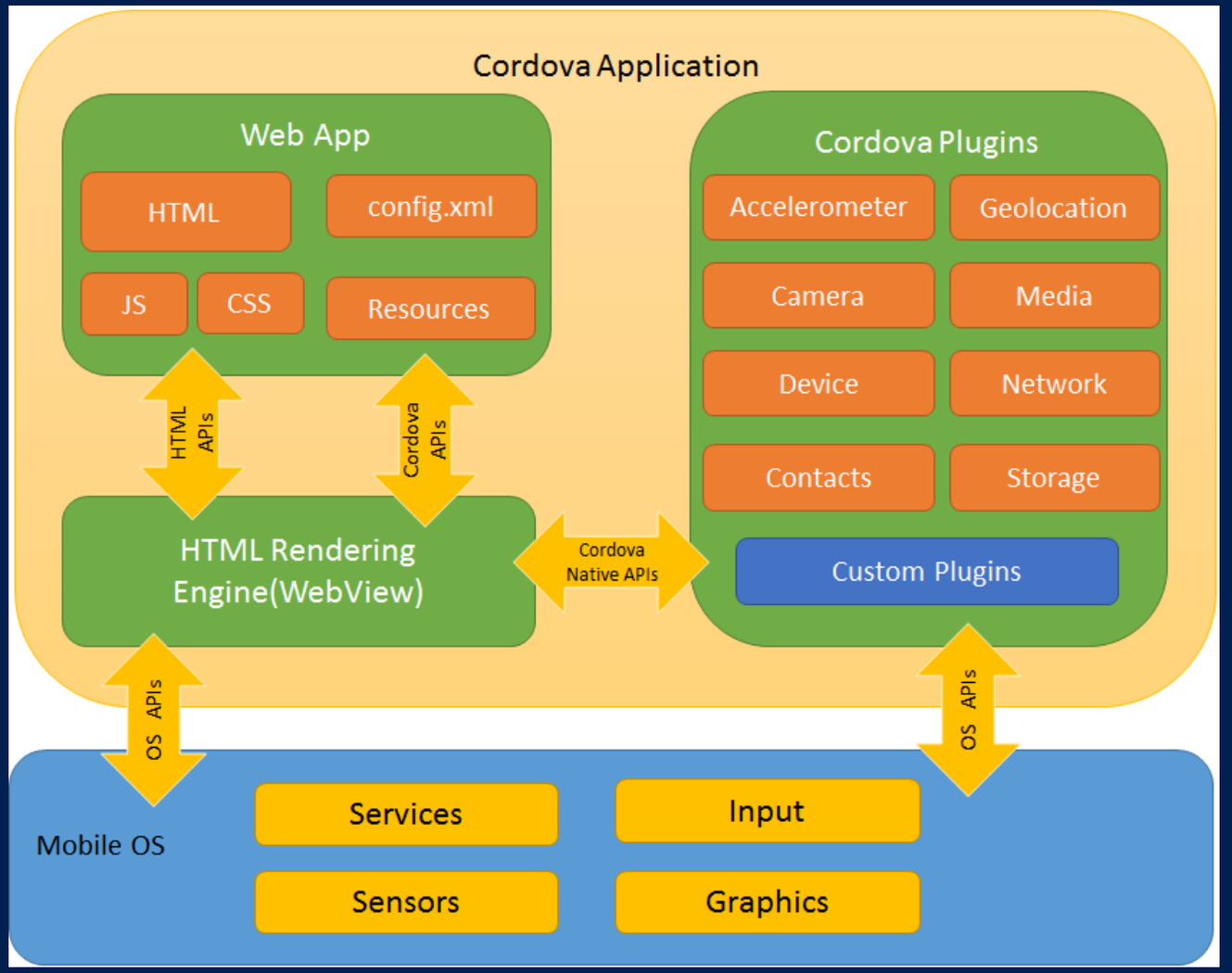




History

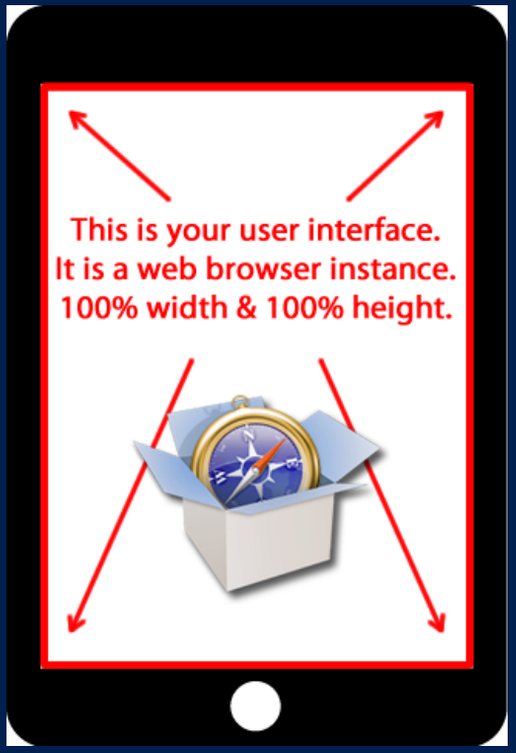
- Apache Cordova was originally called phonegap build by Nitobi.
- Nitobi then acquired by Adobe & donated phone gap codebase to Apache Software Foundation.
- Phonegap is still a product of Adobe.It is a distribution of Apache Cordova.

Cordova Architecture



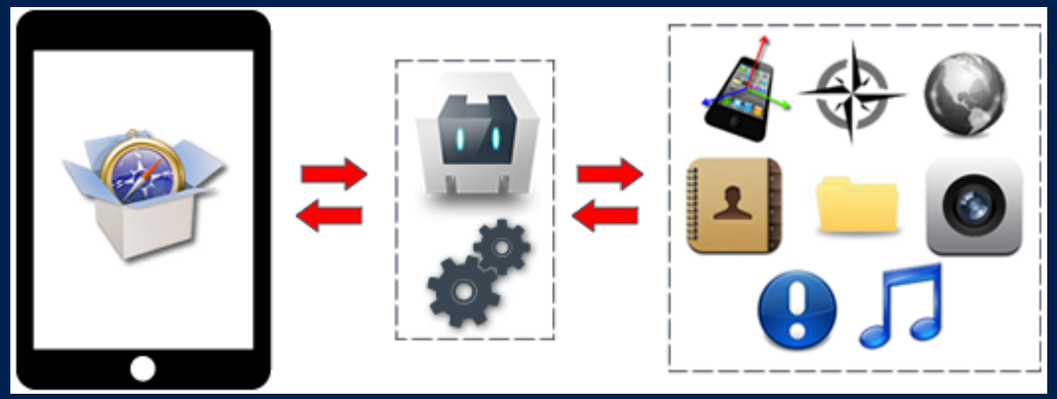
Cordova Application's User Interface

- The UI for Cordova applications is created using HTML, CSS & JS.
- The UI layer is a web browser view that takes up 100% of the device width & height.
- The web view used by application is the same web view used by the native operating system.



Cordova API

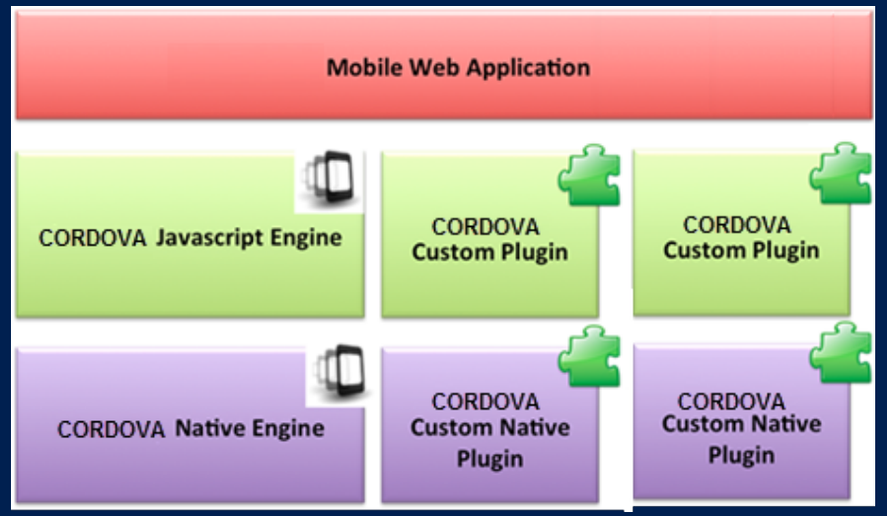
- Enables you to access native os functionality using javascript.
- APIs for Accelerometer, Camera, Compass, Media, FileSystem, etc.
- Extendable using native plugin.



Cordova Native Plugin

What if a native feature isn't available in Core APIs ?

- You develop your javascript class to mirror the API of the native class.
- Invoke the native function using PhoneGap.exec()



Development Using Cordova

- Tools for development
  - Any HTML & JS editor.
  - Platform SDK eg. Android SDK,Xcode,Visual Studio Mobile.
  - JS/HTML GUI Mobile framework e.g. JQuery, Sencha Touch,ionic etc.
  - Browser e.g. Firefox with Bugzilla,Chrome etc.

Basics of Cordova cli

Node.js

If you don’t have it,
It’s time to go download it.
http://nodejs.org/

Installing Cordova

Cordova command-line runs on Node.js and is available on NPM.Open a command prompt or Terminal, and type npm install -g cordova.

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

Creating a project

Create a blank Cordova project using the command-line tool. Navigate to the directory where you wish to create your project and type below command

```
$cordova create <Dir> <Package> <AppName>
```

For a complete set of options, type

```
$cordova help create
```

Add a platform

After creating a Cordova project, navigate to the project directory. From the project directory, you need to add a platform for which you want to build your app.To add a platform, type

```
$cordova platform add <platform name>
```

For a complete list of platforms you can add, run cordova platform

Run your app

From the command line, run

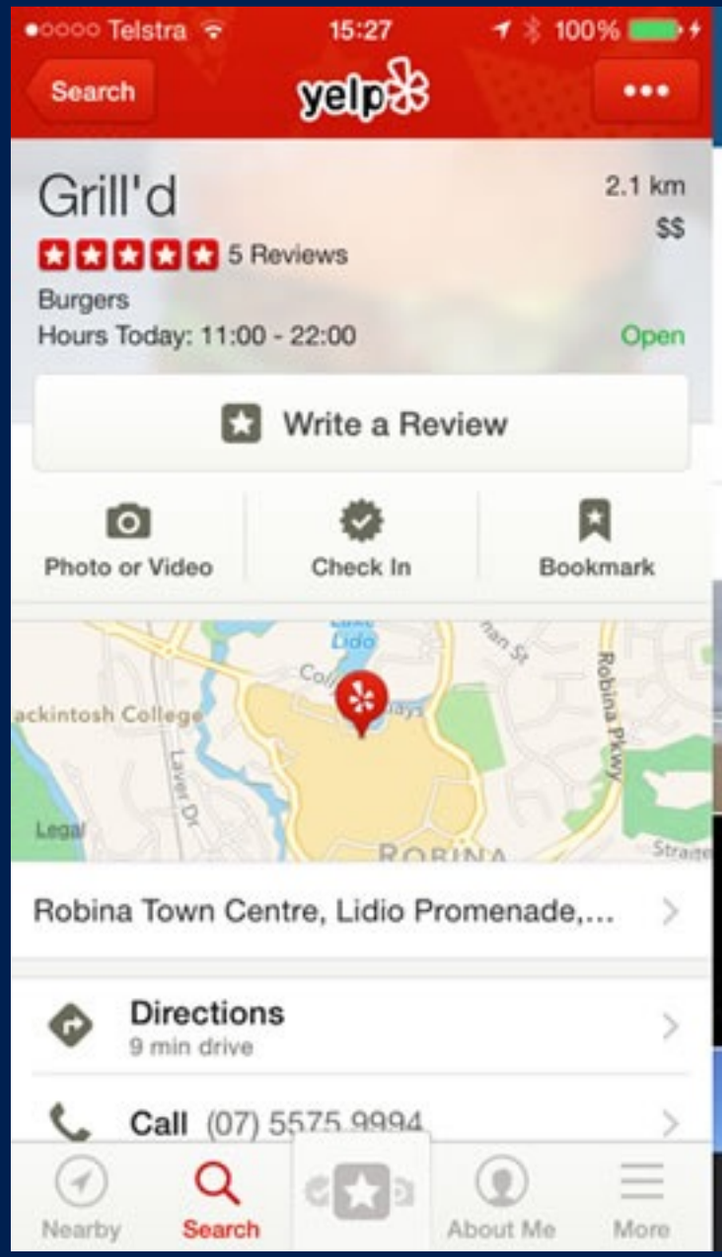
```
$cordova run <platform name>
```

Motivations to go Hybrid

What are the motivations to go Hybrid

- Reusing Existing Skills HTML CSS & Javascript
- Portability - One code base, multiple platforms
- Access to various Software/hardware Capabilities
- Cheaper Origination costs
- Faster speed to market

Who is building Hybrid apps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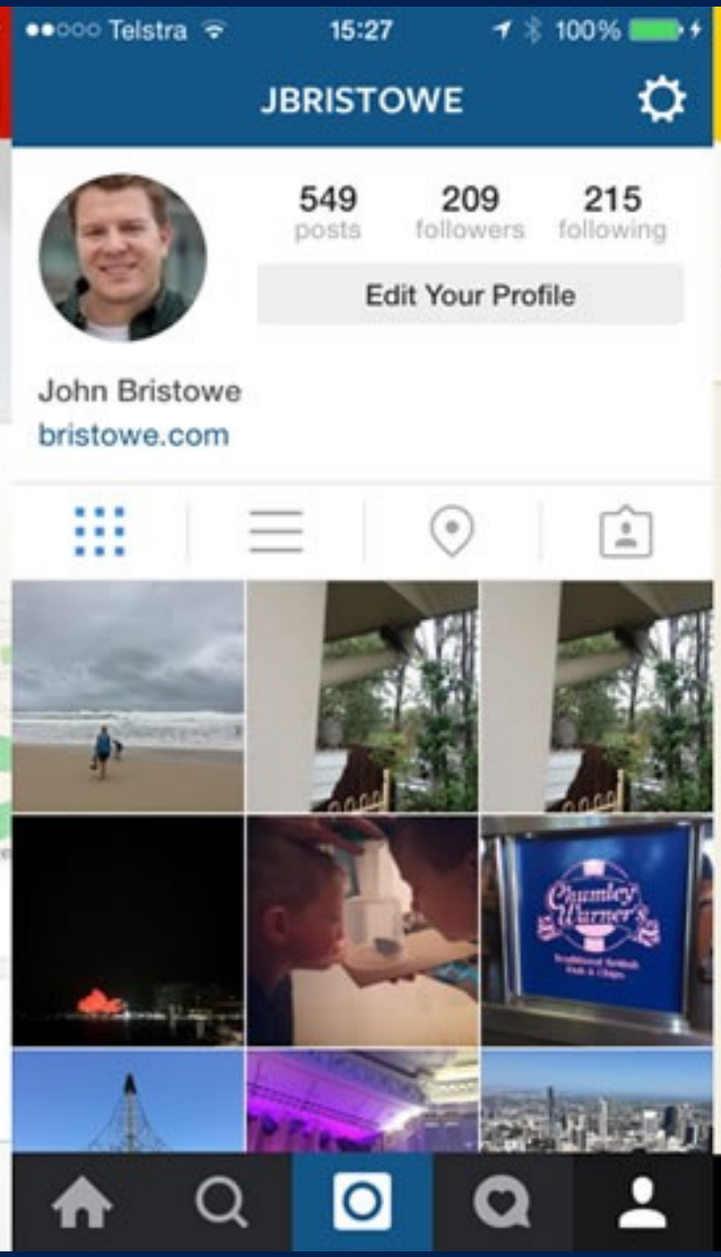
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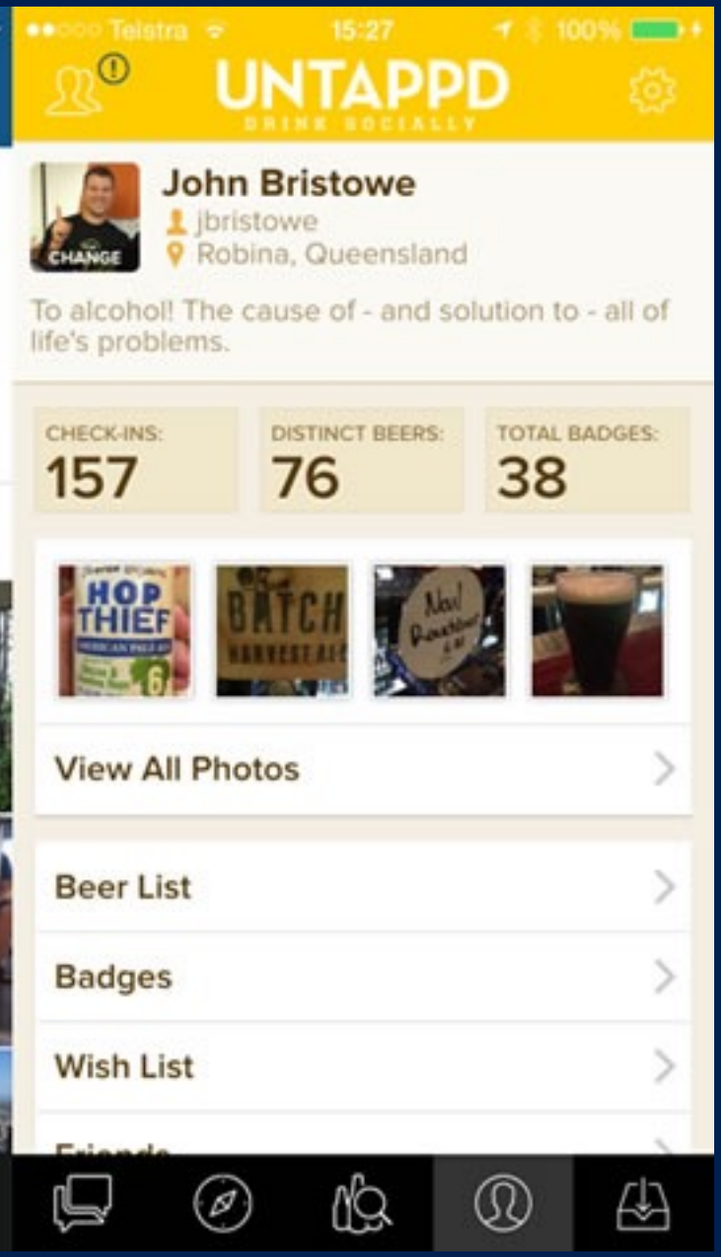
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To alcohol! The cause of - and solution to - all of life's problems.
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DISTINCT BEERS:
76
TOTAL BADGES:
38
HOP THIEF
BATCH
View All Photos
Beer List
Badges
Wish List

Got a question?

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