



PhoneGap

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Overview

- Background
- PhoneGap Framework
- PhoneGap Beyond Framework

What is Phonegap?

- Native Application
- Web Application

- **Native Application**

Native applications are created for a specific platform or OS and are build using platform SDKs and tool stack, using specified languages and usually adhering to recommend standards for UX for look and feel

Advantages - performance and standard look and feel

Disadvantages - steep learning curve for the SDKs and other development tools, must learn a new SDK for each target and the application must be re-written for each target platform.

- **Web Application**

Web applications are created using web technologies (HTML, Javascript and CSS), run in a browser

Advantages lower learning curve and generally platform agnostic.

Disadvantages - performance and fewer features.

What is Phonegap?

Phonegap: A History

Nitobi

2008 - Nitobi develops a suit of webkit like browsers for iphone, android, windows, and blackberry, allowing them to create single version web apps that can target multiple platforms.

2009 - Nitobi adds ability to access phone features (geo-location, camera, ...) from web applications.

Phonegap: A History

2010 - IBM joins Nitobi in developing PhoneGap.

2011 - Adobe acquires Nitobi and PhoneGap and at the same time PhoneGap is renamed to Cordova and donated the Apache Software Foundation.

Today - PhoneGap is an opensource project owned by Adobe that seeks to add value to Apache Cordova

What is Phonegap?

What is Phonegap?

PhoneGap is an open source distribution of Cordova.

What is Cordova?

What is Cordova?

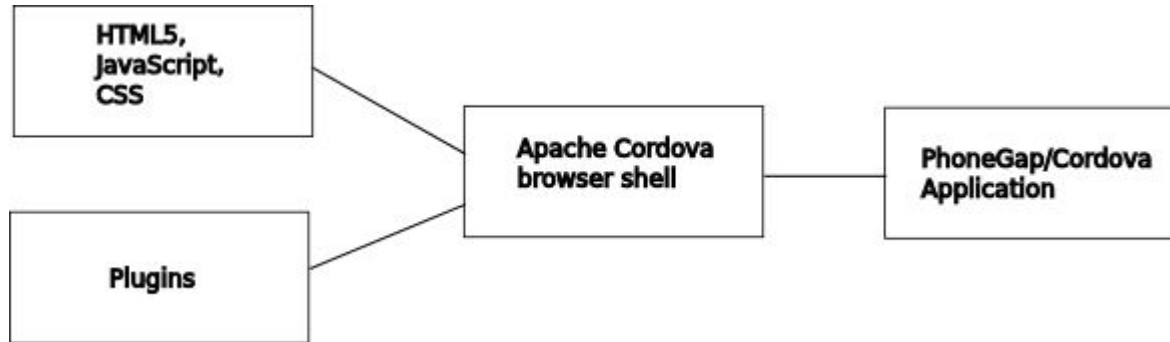
Cordova is an open source framework for building cross-platform mobile apps with standards-based Web technologies like HTML, JavaScript, CSS.

Think about Cordova's relationship to PhoneGap like WebKit's relationship to Safari or Chrome.

Are PhoneGap Apps Web Apps or Native Apps?

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Both - PhoneGap Apps are a hybrid application, consisting of elements of both Web applications and Native Applications



PhoneGap/Cordova Framework

- PhoneGap CLI
- PhoneGap Build
- PhoneGap Desktop App
- PhoneGap Developer App

PhoneGap/Cordova CLI

The PhoneGap Command-line Interface is the primary means to create and build PhoneGap Applications

Requires:

- *node.js*
- *SDK for each platform targeted*

PhoneGap Build

PhoneGap Build is a compiler in the cloud. With PhoneGap Build, there's no need to install local SDKs in order to create installable binaries.

PhoneGap Desktop Application

A GUI alternative to the PhoneGap CLI and does not require dependencies such as node.js.

Currently in a beta for OS X and Windows application.

PhoneGap Developer App

An application previewer.

Applications can be view on device without the need to compile, sign and install.

PhoneGap Beyond the Framework

The plugin interface allows developers to create components in native code that can be accessed from JavaScript in the application.

The Cordova browser shell can be used as a component in a native application.

PhoneGap Beyond the Framework

Should you use PhoneGap for all mobile applications?

- No.

If you are targeting only a single platform, and have the right development resources, or need high performance - Go Native.

PhoneGap Beyond the Framework

When...

Who...

Why use PhoneGap?

PhoneGap Beyond the Framework

Use the Nitobi model:

- *Small company*
- *Lots of web tech skills and experience*
- *Wanting to expand offerings into mobile apps for multiple platforms*

Summary

PhoneGap is an open-source framework for using HTML, JavaScript and CSS to develop web/native hybrid application for multiple mobile platforms.

Questions?