

Porting Cordova on Tizen 2.0

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TIZEN™
**DEVELOPER
CONFERENCE**
2013
SAN FRANCISCO

Summary

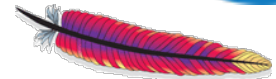
- **About Me**
- **Cordova**
- **Why?**
- **Going on Tizen**
- **Q&A**

About Me



- Senior Software Engineer
- Over 24 years of experience
- Started as a Mac Developer, Gesdent - 1989
- Palm Computing, PalmSource, Palm Oses - 1999
- ACCESS Systems, ALP - 2005
- Middleware and Application Developer
- UX design, Design Patterns, C , C++
- Intel Open Source Technology Center - 2010
- Cordova Committer - December 2012

<http://fr.linkedin.com/pub/paul-plaquette/1b/61a/3a8>





Cordova

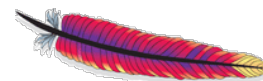
Cordova

- **Cordova**
- **Cordova Release Train**
- **Cordova Platforms**
- **Cordova 3.0**

Cordova (1/4)



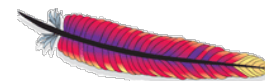
- Inspired from W3C DAP APIs
- An Apache Software Foundation Project
<http://projects.apache.org/projects/cordova.html>
- Apache Software License 2.0
- Strong and Active Community
- JavaScript Cross-Platforms Framework
- Hybrid Applications on most
- Current version is 2.8
- Pluggable architecture has started (*final in v 3.0*)



Cordova – Release Train (2/4)



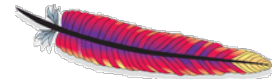
- **Cordova Release Train**
- **Not features based**
- **Monthly Release + 0.1 version increment**
- **In May version 2.8**
- **In July version 3.0**
- **Monthly released archive contains Cordova Core platforms**



Cordova Platforms (3/4)



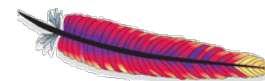
- Supported Platforms, <http://wiki.apache.org/cordova/PlatformSupport>
Android, Bada, Blackberry, Blackberry 10, Firefox OS, iOS, OS X, Qt, Symbian, Tizen, WebOS, Windows (*desktop*), Windows Phone 7
Windows Phone 8.
- Core Platforms
iOS, Android, Windows Phone, BlackBerry
- Sunset Platforms
Bada, Web OS
- Sunrise Platforms:
Tizen, Firefox OS, Qt, OS X, Windows




Cordova 3.0 (4/4)



- **A new modular Architecture**
- **Plugins**
- **CLI & Plugman tools**
- **Implementation has started**
- **Ready in July at pace of monthly releases**
- **More information & Public exposure will be at**
 - PhoneGap Days US, Portland, OR, 19th , July 2013
 - PhoneGapDays EU, Amsterdam, 24th September 2013
 - <http://pgday.phonegap.com/>





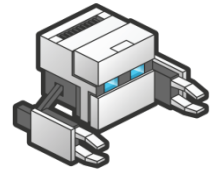
Why ?

Why?

- **Cordova & Adobe**
- **Cordova & Intel**
- **Cordova & Tizen**

Cordova & Adobe

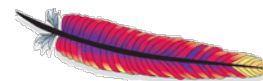
- Original PhoneGap made by Nitobi
- Adobe bought Nitobi (*October 2011*)
- ~~PhoneGap~~ **CallBack Cordova**
- **Cordova is the Apache Open Source Project**
- **Apache Software Foundation License 2.0**
- **PhoneGap is an Adobe Distribution of Cordova**
- **PhoneGap Build System is based on PhoneGap**
- **PhoneGap Build System is a “cloud” to package HTML applications**



Cordova & Intel



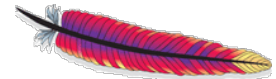
- Intel is interested in Cordova
- Intel engineers contributed to Windows 7, Window 8 and Tizen ports of Cordova (*up to 8 engineers Involved.*)
- 3 Cordova committers since December 2012
- A part of “HTML5” Intel strategy to enable web applications
- Intel OTC signed Apache Software Foundation CLA
- Each engineer signed Apache Software Foundation ICLA
- 01.org, Intel Open Source Technology Center
<https://01.org/projects/cordova>



Cordova & Tizen



- **Take Benefit of Cordova Applications portfolio**
- **Attract Cordova developers to Tizen**
- **Grant Tizen developers to go Cross Platform**
- **Take benefit of tools like Adobe PhoneGap Build**
- **Build a community of Cordova developers on Tizen**
- **The goal is obviously to get more application on Tizen**





Going on
Tizen

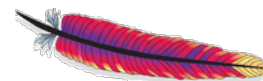
Going on Tizen

- **Port on Tizen**
- **Supported APIs**
- **Repositories**
- **Web Sites**
- **Current Status**
- **NeXT Steps**
- **You are Needed !**
- **How to Contact Me ?**

Port on Tizen



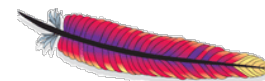
- **Tizen has a Web Runtime**
(W3C APIs and Tizen Device web APIs)
- **Web APIs are the API of Choice for developers**
- **Cordova on Tizen is a JavaScript Shim-Layer**
(Proxy / Adaptor Design Patterns)
- **Previous port on Tizen SDK 1.0 was ready in August 2012**
- **Port made using publicly released SDK**
now **Tizen SDK 2.0** ,
soon **Tizen SDK v2.1** *(Released last Week!)*



Supported APIs – Adapting (1/3)



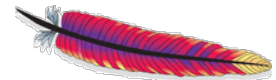
- Adapting existing port to Tizen SDK 2.0
- Accelerometer, Battery, Camera (partial implementation), Compass, Connection, Contacts, Device, File, File Transfer, Geolocation, Media, Notifications, Storage.
- This phase is under execution (*doing well*)



Supported APIs – Extending (2/3)



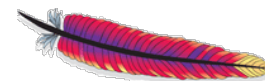
- In App Browser, Globalization, Splashscreen, Notifications, Error Handling
- Any newly added Cordova API should be ported in this phase



Supported APIs – Fulfilling (3/3)



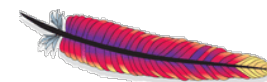
- Improve interaction with Cordova APIs and Tizen platform
- About finishing, may be extending several APIs
- Camera, Capture, Events, Miscellaneous



Repositories

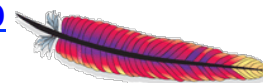


- Using git at Apache (*Committers*)
<https://git-wip-us.apache.org/>
- Cordova Apache git repositories (*Committers*)
<https://git-wip-us.apache.org/repos/asf?s=cordova>
- Cordova Github Repositories (*Contributors, Pull Requests*)
<https://github.com/cordova-js> & [cordova-tizen](https://github.com/cordova-tizen)
- Cordova Mailing List (*Committers, Contributors*)
<http://cordova.apache.org/#mailing-list>



Web Sites

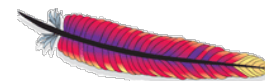
- Cordova Web Site
<http://cordova.apache.org/>
- Cordova Wiki
<http://wiki.apache.org/cordova/>
- PhoneGap Web Site (Adobe)
<http://phonegap.com/>
- PhoneGap Build (Adobe)
<https://build.phonegap.com/>
- Cordova or PhoneGap Users Forum,
<https://groups.google.com/forum/?fromgroups#!forum/phonegap>



Current Status



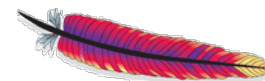
- **First set of APIs is committed** (*issues with File and File Transfer.*)
- **Work on second set of APIs should start ASAP**
- **Cordova InAppBrowser API is working**
- **run on Tizen SDK 2.1, config.xml slightly different**



NeXT Steps



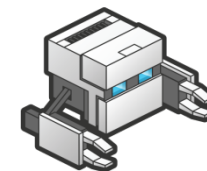
- **Tizen SDK 2.1**
- **Build a Native Plugin sample and how to doc**
- **Update Documentation**
- **Update Sample**
- **Adapting CLI to Tizen**
- **Adapting Plugman to Tizen**
- **Cordova 3**



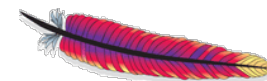
NeXT Steps – “Precogs^(*)”



- Tizen as a Cordova Core platform
- Build a “Tizen Cordova Community”
- Tizen in Adobe PhoneGap
<http://phonegap.com/>
- Tizen in Adobe PhoneGap Build
<https://build.phonegap.com/>



() Philip K.Dick, - “Precogs” are Human mutants with precognitive capacities (e.g Minority Report)*

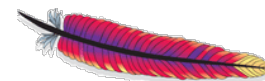


You are Needed



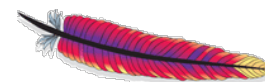
• You Tizen Developers!

- Participate into discussions (*Cordova mailing list*)
<http://cordova.apache.org/#mailing-list>
- Find and Enter bugs in Cordova JIRA
- <http://wiki.apache.org/cordova/ReportingBugs>
- Become Contributors
- <http://wiki.apache.org/cordova/ContributorWorkflow>
- Become Committers
<http://wiki.apache.org/cordova/CommitterWorkflow>



How to contact me ?

- Cordova mailing list
dev@cordova.apache.org
- Email
paul.plaquette@apache.org
paul.plaquette@intel.com



Thanks !





Q & A

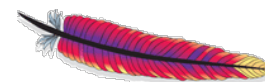


*LINKS of
INTEREST*

Links



- <https://01.org>
- <http://www.linuxfoundation.org/>
- <http://tizenassociation.org/en/>
- <http://www.tizenexperts.com/>
- <https://www.tizen.org/>
- <http://projects.apache.org/projects/cordova.html>
- <http://wiki.apache.org/cordova/PlatformSupport>
- <https://git-wip-us.apache.org/>
- <https://git-wip-us.apache.org/repos/asf?s=cordova>
- <https://github.com/>
- <http://cordova.apache.org/#mailing-list>
- <http://fr.linkedin.com/pub/paul-plaquette/1b/61a/3a8>



Links



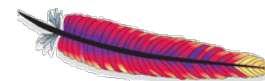
- <http://projects.apache.org/projects/cordova.html>
- <http://wiki.apache.org/cordova/PlatformSupport>
- <https://git-wip-us.apache.org/>
- <https://git-wip-us.apache.org/repos/asf?s=cordova>
- <https://github.com/>



Links



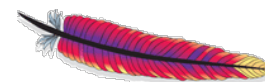
- <http://cordova.apache.org/>
- <http://wiki.apache.org/cordova/>
- <http://cordova.apache.org/#mailing-list>
- <http://phonegap.com/>
- <http://pgday.phonegap.com/>
- <https://build.phonegap.com/>
- <https://groups.google.com/forum/?fromgroups#!forum/phonegap>



Links



- <http://www.w3.org/>
- <http://www.w3.org/2009/dap/>
- <http://nodejs.org/>
- <http://jshint.com/>
- <http://www.jshint.com/>
- <https://github.com/mde/jake>
- <http://cappuccino.org/discuss/2010/04/28/introducing-jake-a-build-tool-for-javascript/>



Links



- <http://www.w3.org/>
- <http://webinos.org/>
- <http://www.khronos.org/>
- <http://www.mozilla.org/en-US/>
- <http://www.chromium.org/>
- <https://developer.apple.com/devcenter/safari/index.action>
- <http://code.google.com/>
- <http://www.webplatform.org/>
- <http://www.whatwg.org/>
- <http://diveintohtml5.info/>
- <http://www.html5rocks.com/en/>



Links



- <http://rng.io/>
- <http://html5test.com/>
- [http://en.wikipedia.org/wiki/Comparison of JavaScript frameworks](http://en.wikipedia.org/wiki/Comparison_of_JavaScript_frameworks)
- <http://coffeescript.org/>
- <http://www.dartlang.org/>
- <https://github.com/kripken/emscripten/wiki>
- <http://www.webrtc.org/>
- [http://en.wikipedia.org/wiki/Enlightenment \(window manager\)](http://en.wikipedia.org/wiki/Enlightenment_(window_manager))





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