An X-Platform Solution: PhoneGap
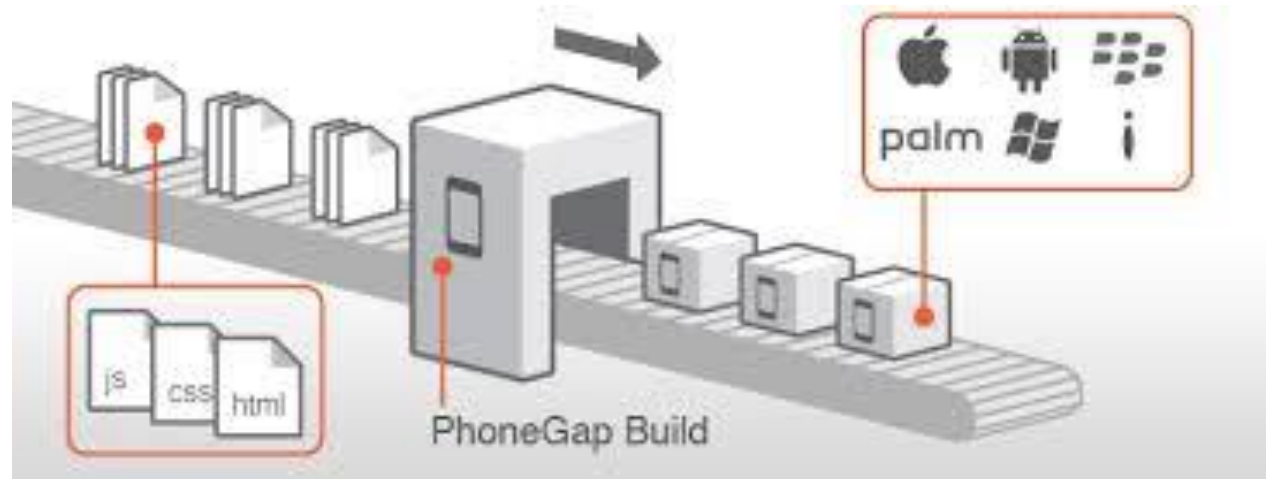
Jim Xu(xujian1030@gmail.com)

Agenda

▶ Background

▶ PhoneGap: What & How

▶ Pros & Cons

▶ Another Solutions

▶ Q&A

PhoneGap Build

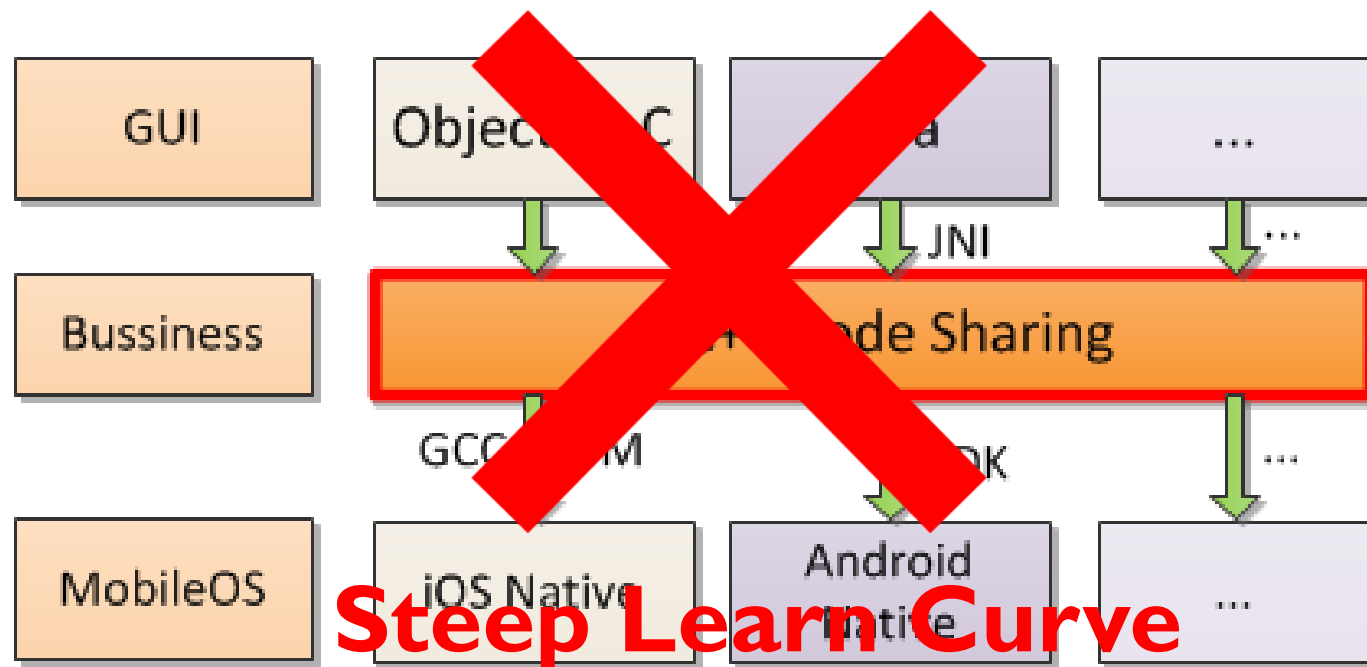# More and More Platforms

Mobile

Desktop

Web & Flash

Challenge

Traditional Solution

▸ #**1**: Based on C/C++

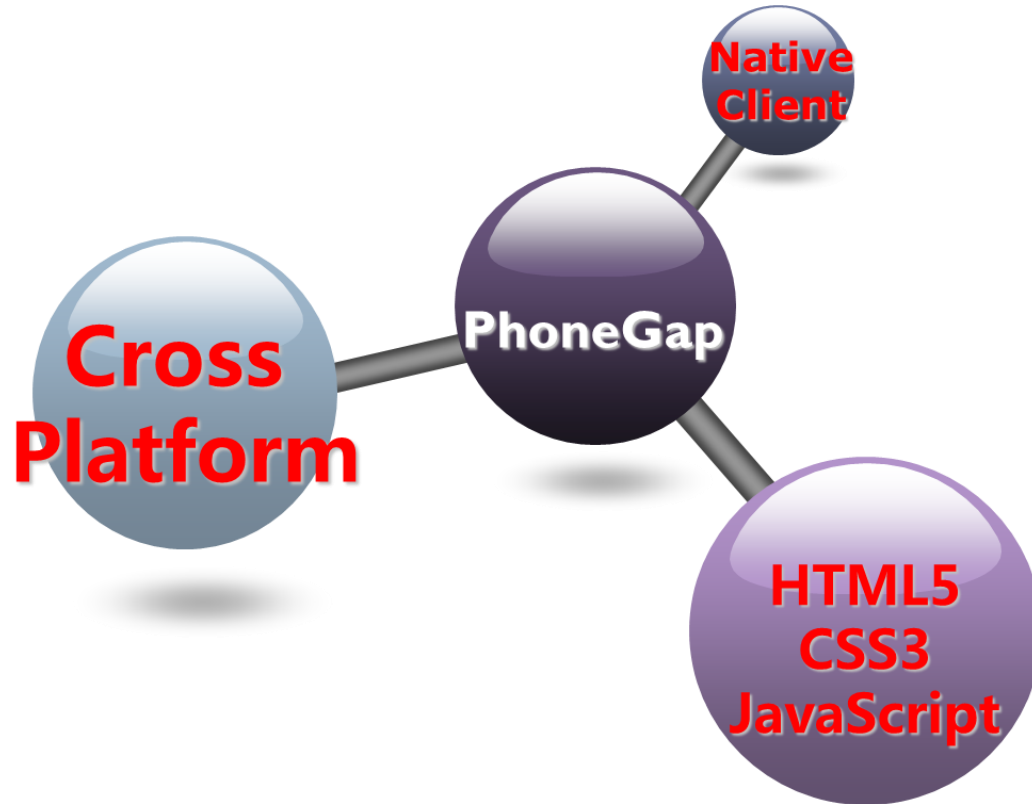# Traditional Solution

- ▸ #**2**: Based on Web Page

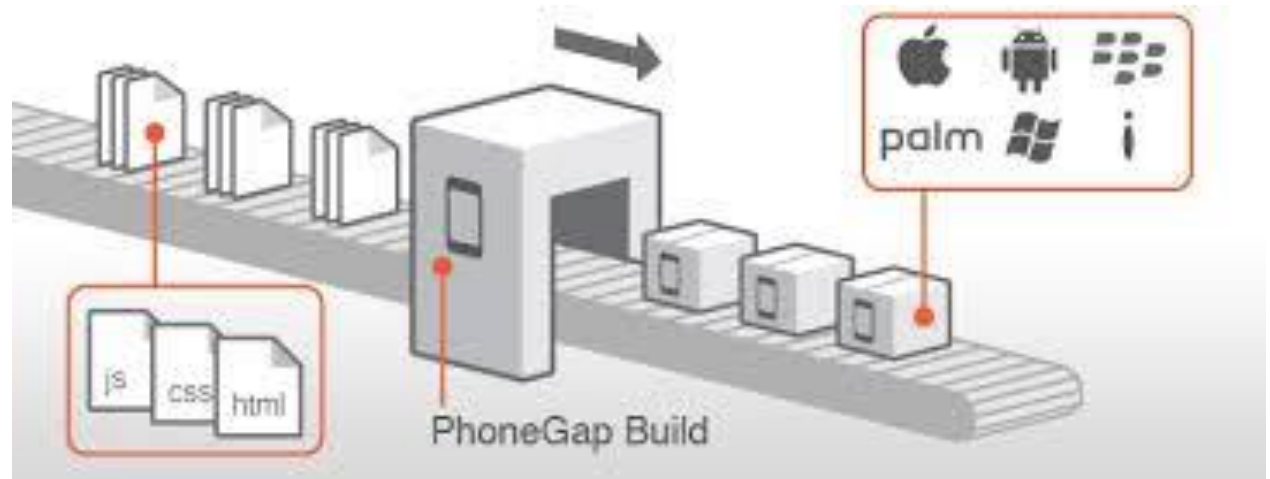**Not "mobile" style**

An Great Idea

PhoneGap Can Help!!!

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- Q&A

PhoneGap Build

PhoneGap History

2008 SF
- Keyword:
- Nitobi

2011.7.29
- Keyword: 1.0

2011.10.4
- Keyword:
- Adobe

2011.10.15
- Keyword: Apache

2011.11.28
- Keyword: Cordova

2012.10
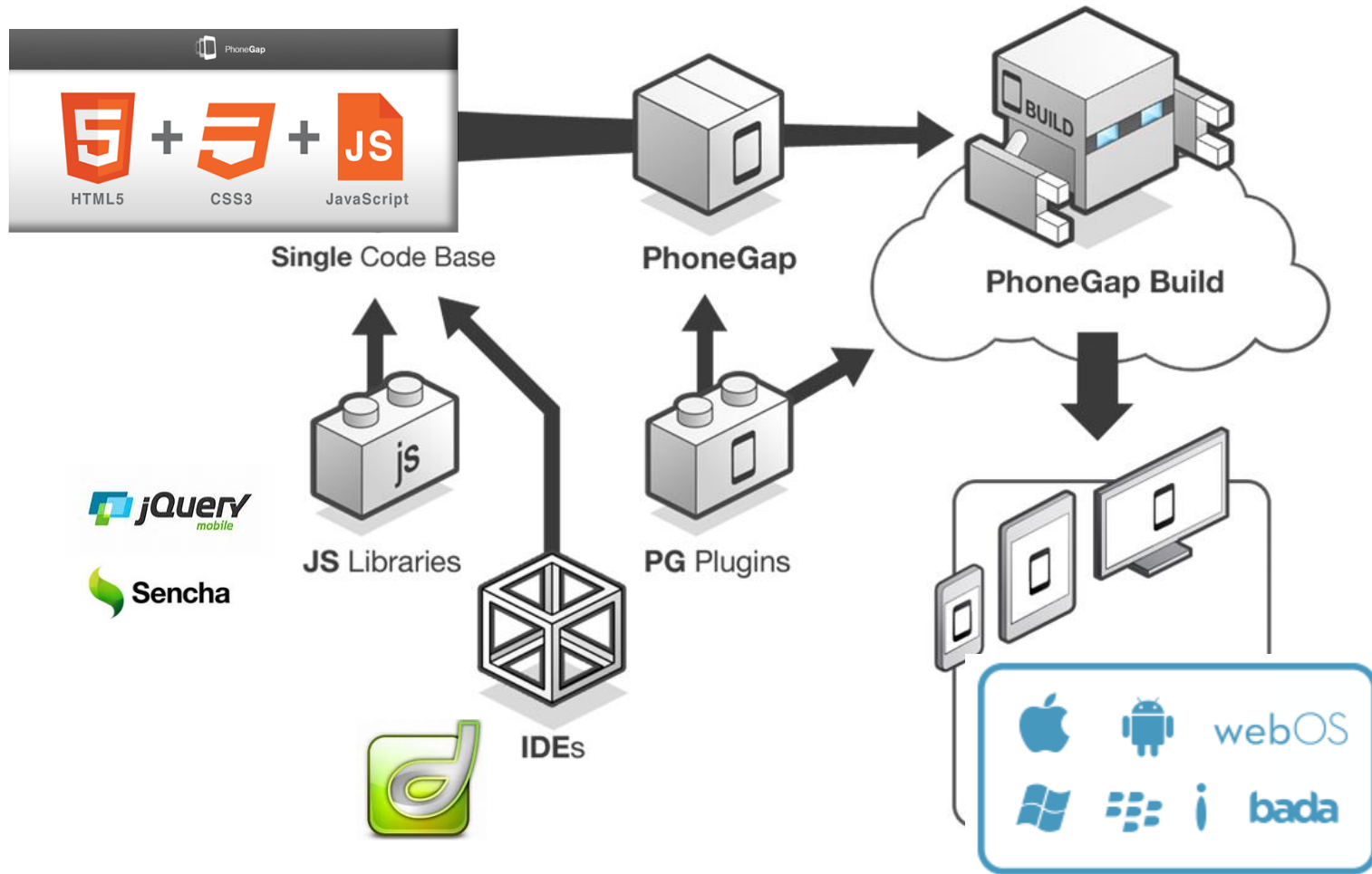- Keyword: Graduate

Some Apps Using PhoneGap
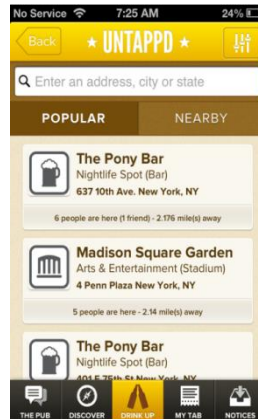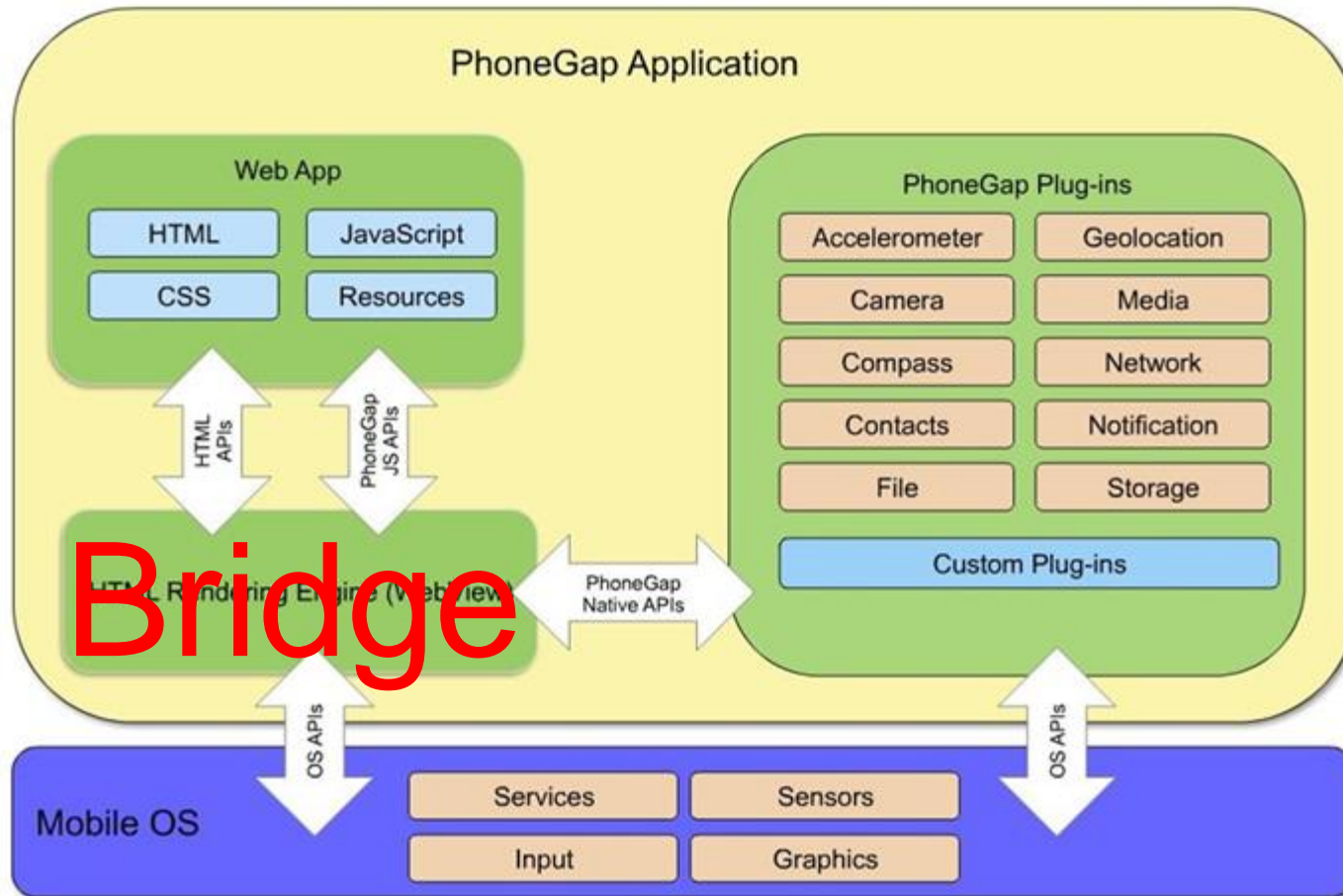
Development

Development

PhoneGap Architecture

Under the Hood for Android

Override onJsPrompt()
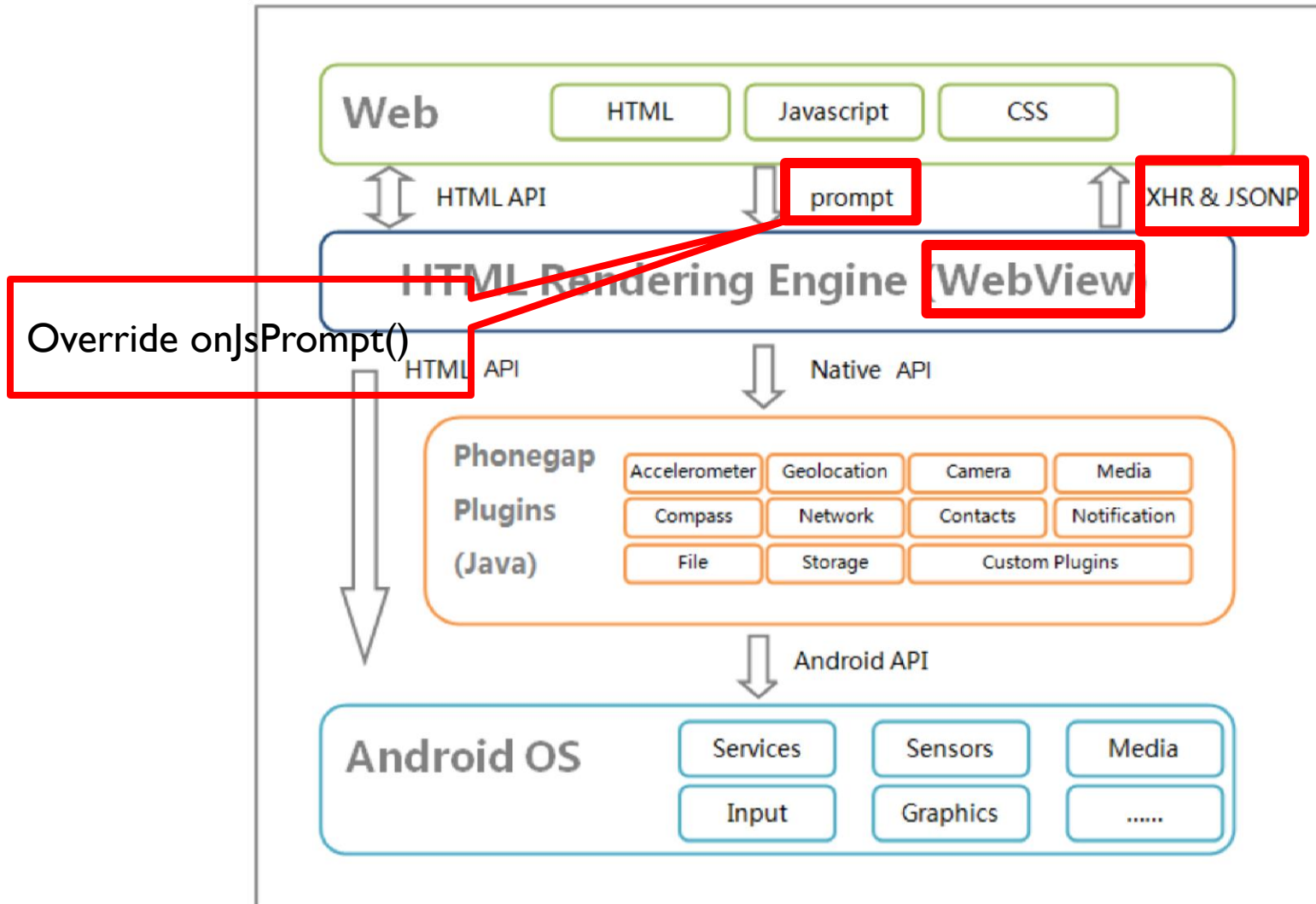
Invoke Native Plugin using Prompt()

Under the Hood for iOS

Agenda

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- **Pros & Cons**
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PhoneGap Build
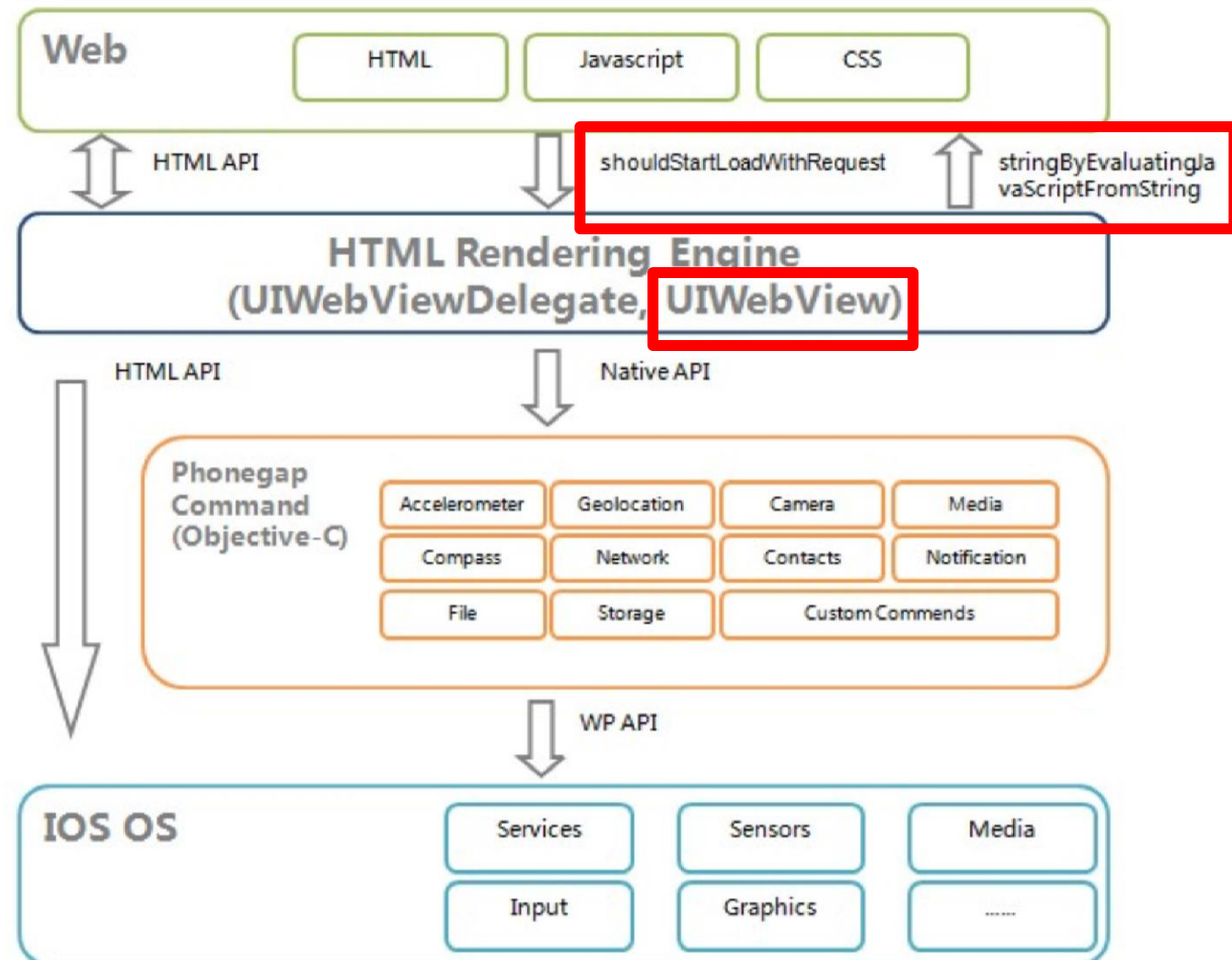
Pros and Cons

X-Platform
- Support x-platform with single codebase
- Use existing skills, improve efficiency
- Write once & run everywhere

Capability
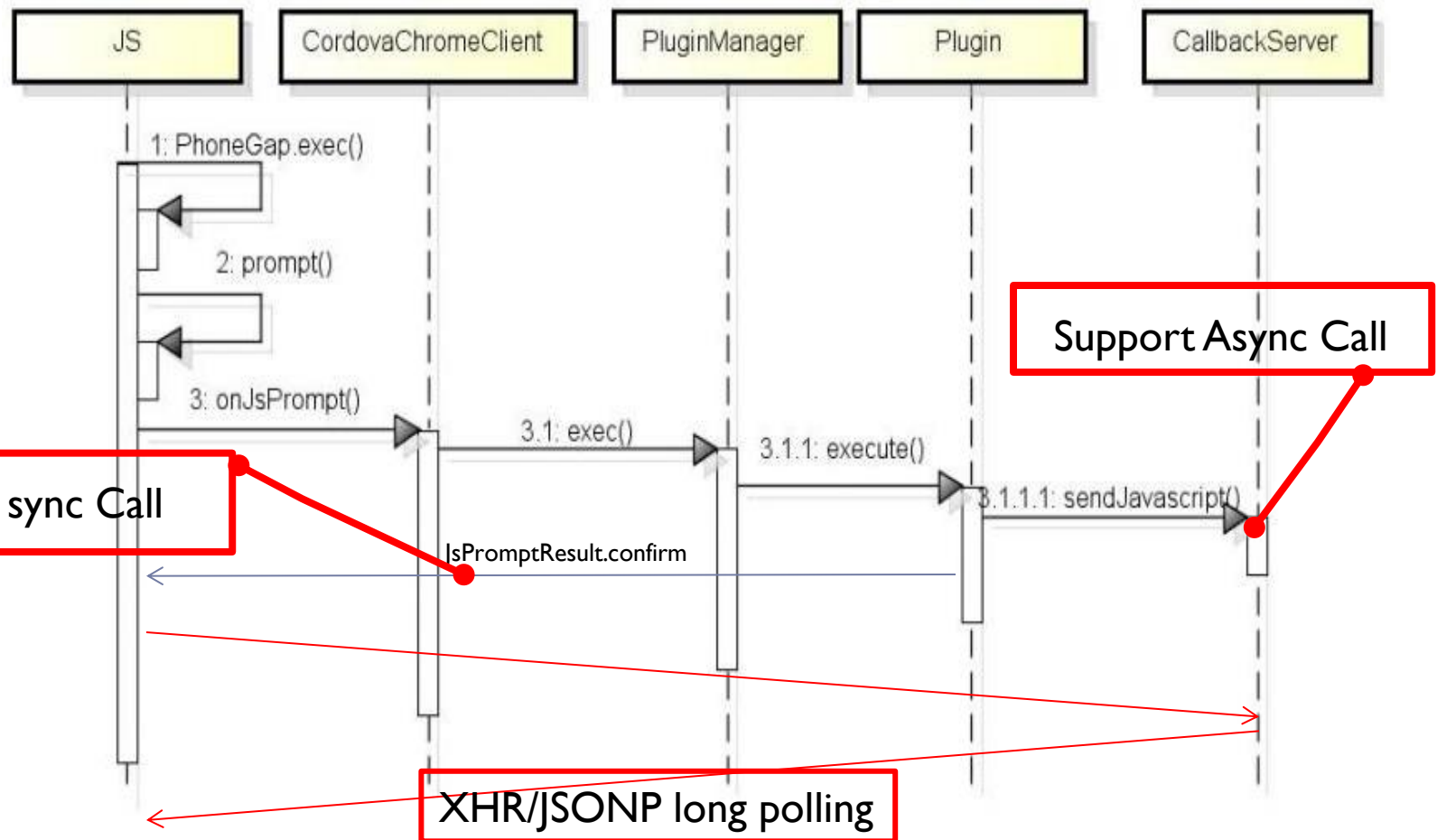- Cross domain access
- Access native platform API/hardware
- Free of charge

Extension
- Mobile style App: Run out of browser
- Easy to add extension
- Easy to deploy & update the App

Pros and Cons

3D Graphic

- Not support high end 3D graphic

Performance
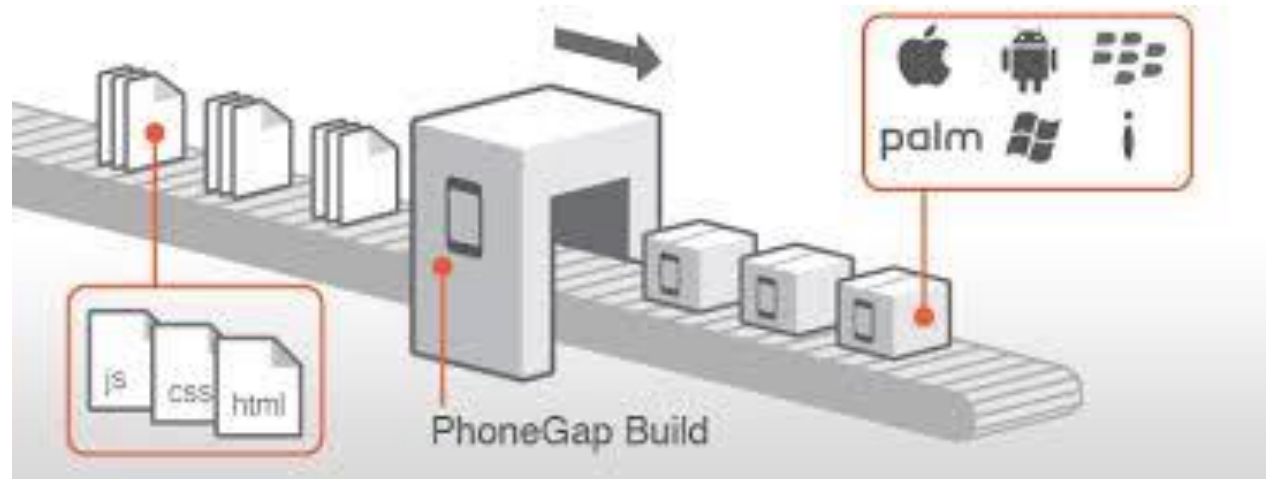
- Occupy more size of memory
- Code might not run as fast
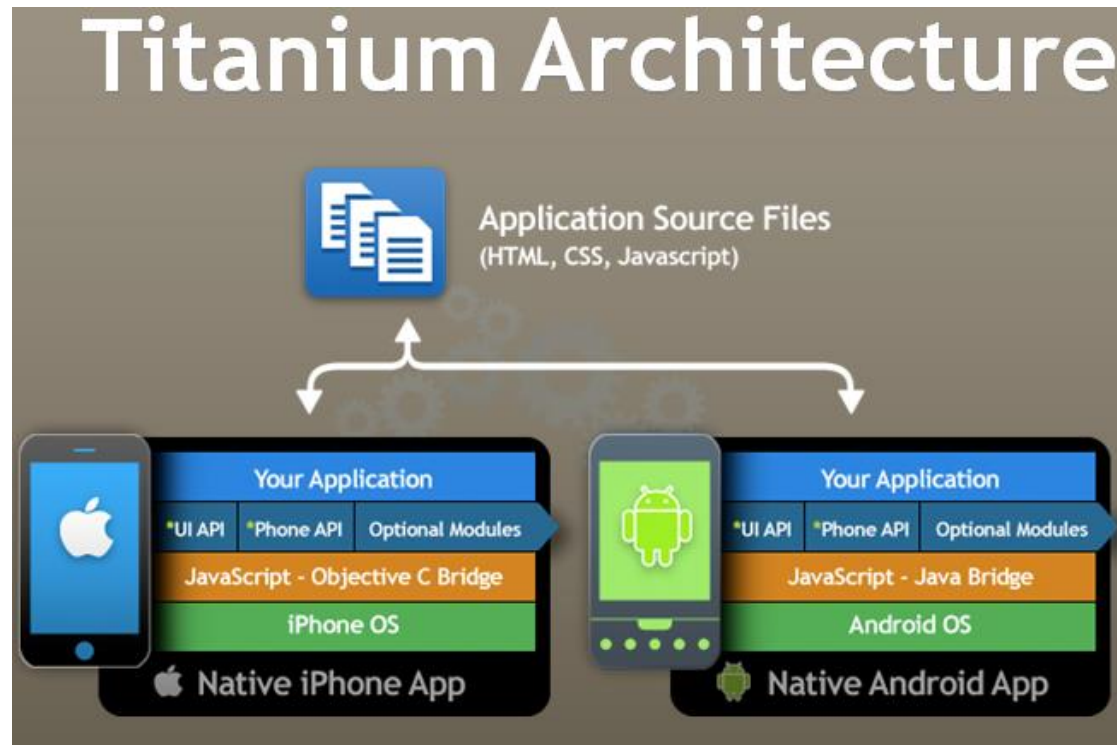
Notification

- Don't support notification

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PhoneGap Build

Titanium

Titanium Architecture

Application Source Files
(HTML, CSS, Javascript)

Your Application
*UI API | *Phone API | Optional Modules
JavaScript - Objective C Bridge
iPhone OS
Native iPhone App

Your Application
*UI API | *Phone API | Optional Modules
JavaScript - Java Bridge
Android OS
Native Android App

iOS

Mono

UI	Silverlight	MonoTouch	Mono for Android
C#	Business Logic		
Runtime	.NET	Mono	
Platform	Desktop	Mobile	
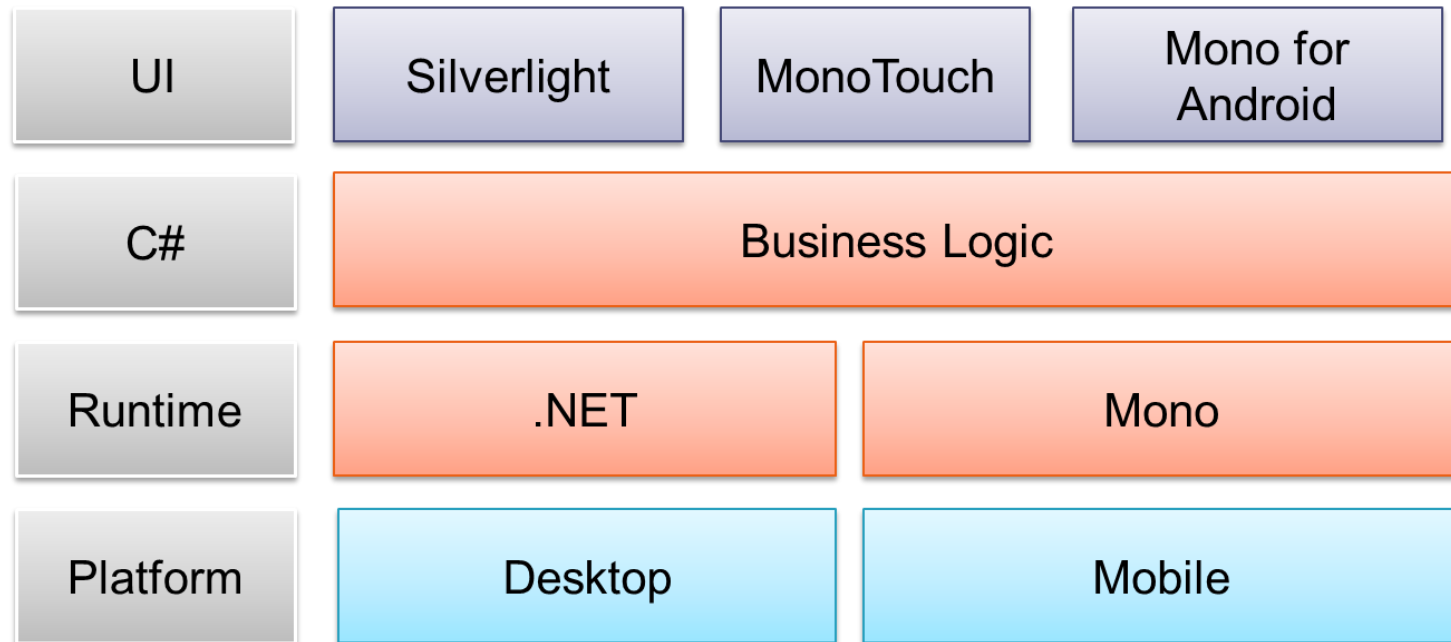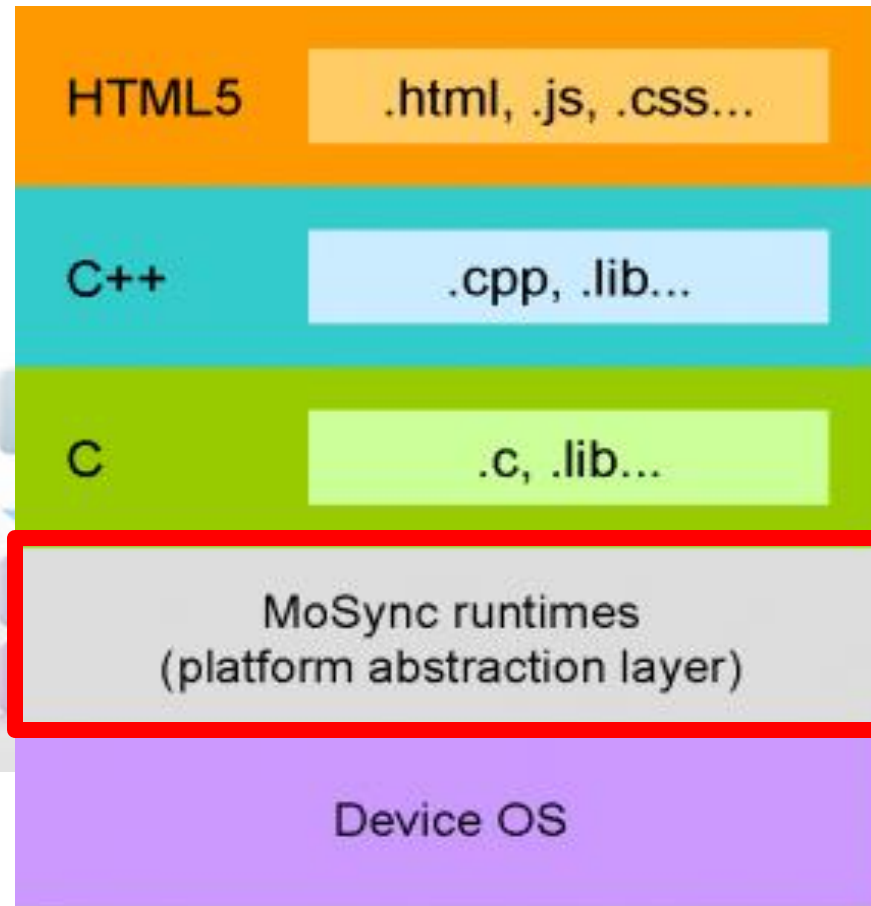
Mosync

MoSync mobile App layers

Q&A

Thanks