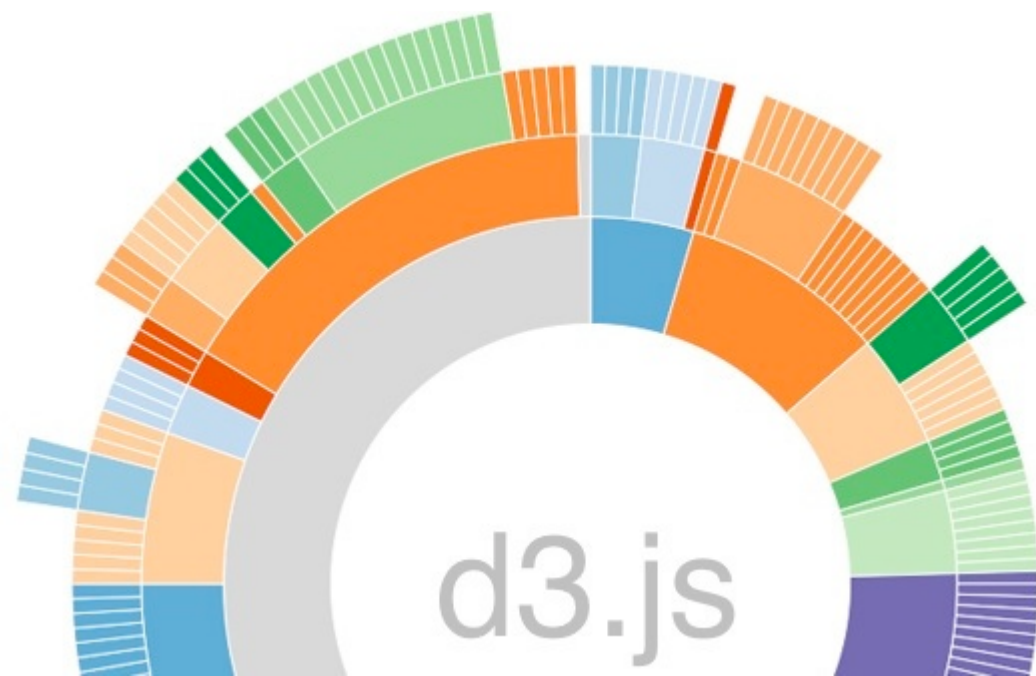




Phone**Gap**



Dagens agenda

Första passet

- Native vs. Webbapplikationer?
- Hybridapplikationer
- *Phonegap*

Andra passet

- D3.js

Frågor om inl. 2?

Frågor om projektet?

Att bygga applikationer med webbtekniker

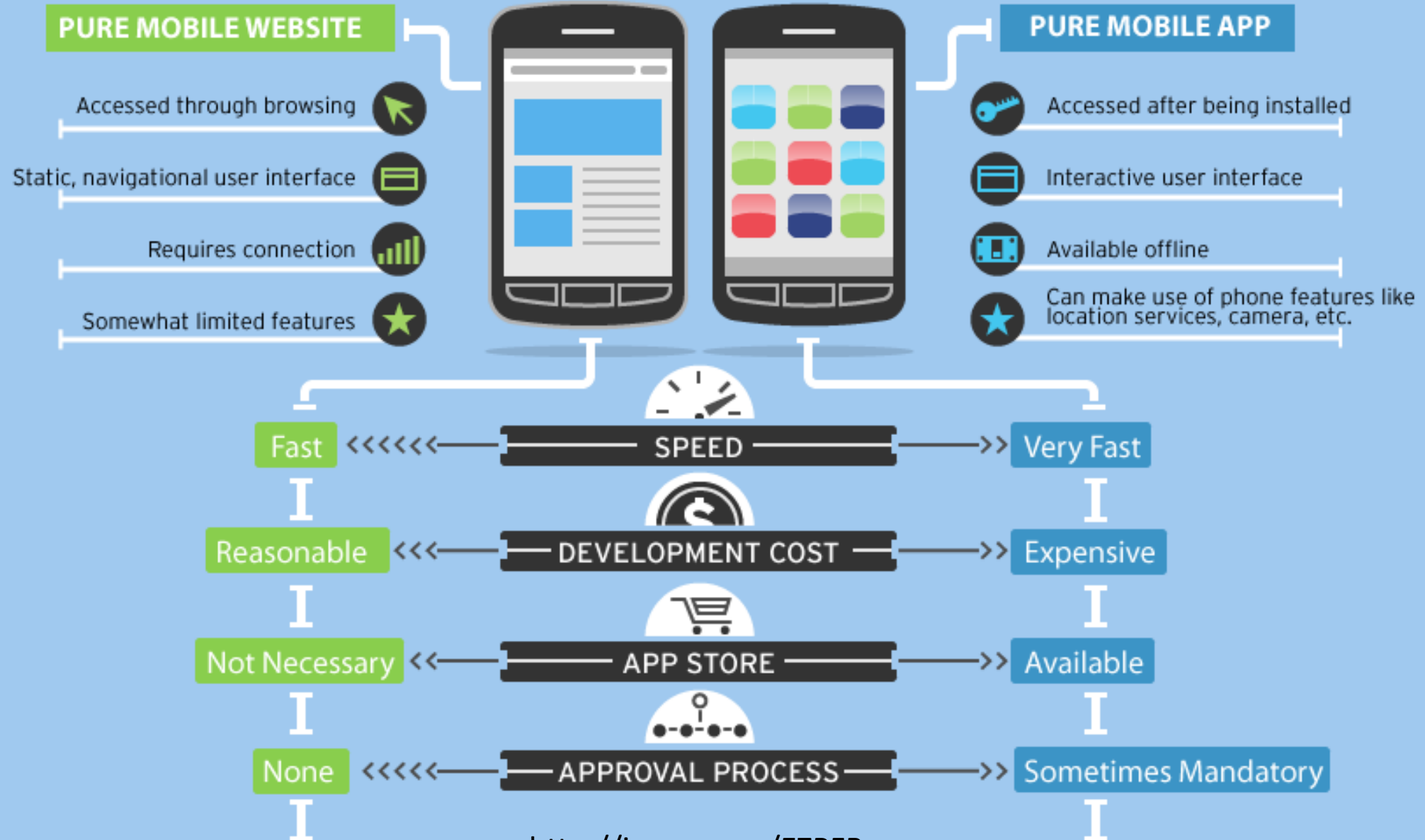
HTML / CSS / JS / m.m.





Vilka för- och nackdelar finns det med webbapplikationer och nativa applikationer?

SOME BASIC PRINCIPLES





Native Apps

Average user spends
2 hrs. 19 min. /day

— VS —



Mobile Web

Average user spends
22 min. /day

Pros

Not required

Incorporates and works
with all smartphone tools
(ex. Camera, GPS, ext.)

Fastest & most optimum performance

Included in app stores, which makes it
easier for users to discover apps
whether they were seeking it or not

More popular with consumers

App is downloaded to device

Cons

Needs additional marketing strategy

High competition from other apps

Takes longer to develop & cost more

Internet Connection

Smartphone Tools

Performance

Marketing

Cost/ Time

Cons

Required

Does not incorporate all tools
(ex. Camera, GPS, ext.)

Not universally compatible.
May not work properly on certain
devices or older devices

Not listed in app store, making
discovery more difficult

Pros

One browser makes it easier to reach
a wider audience faster

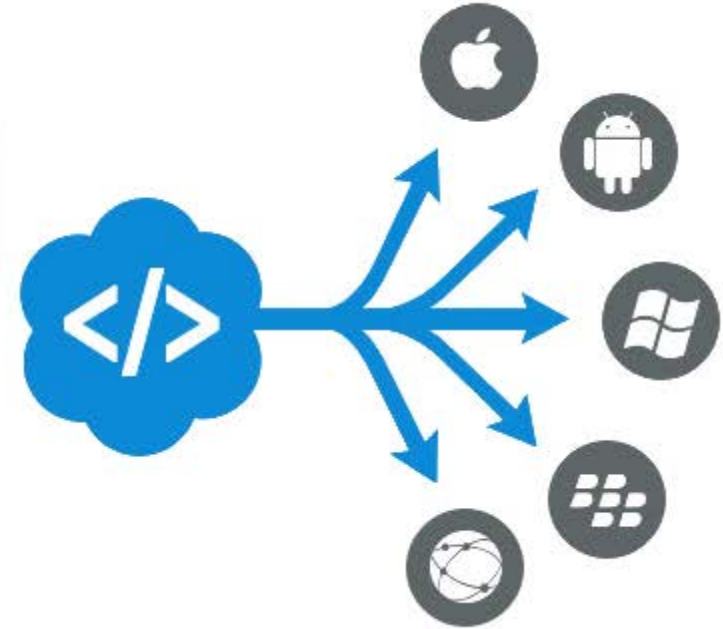
Typically less expensive to develop,
and require less development time



Vilka är era topp 3 applikationer?
(som inte är förinstallerade)



Hybrid App





Native

VS



Hybrid

VS

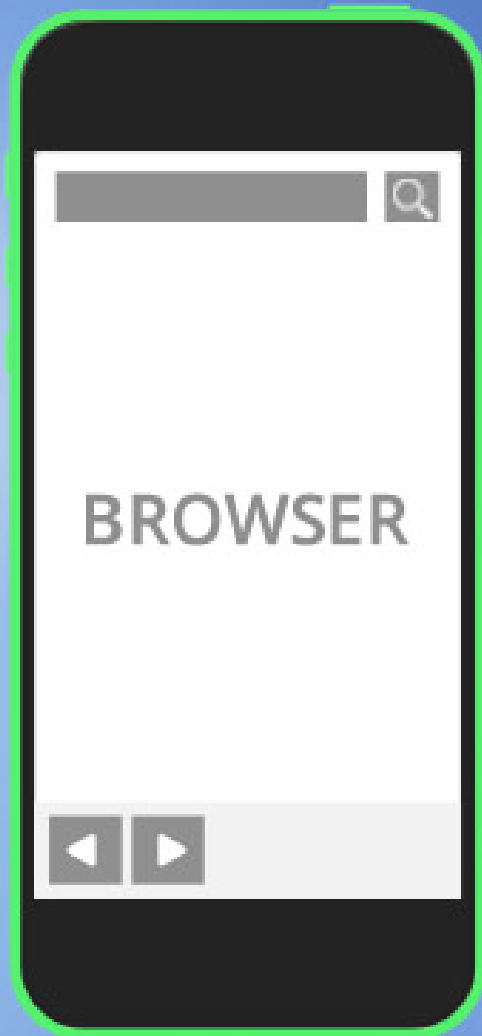


Web

Mobile App Development

©FBOMBMEDIA

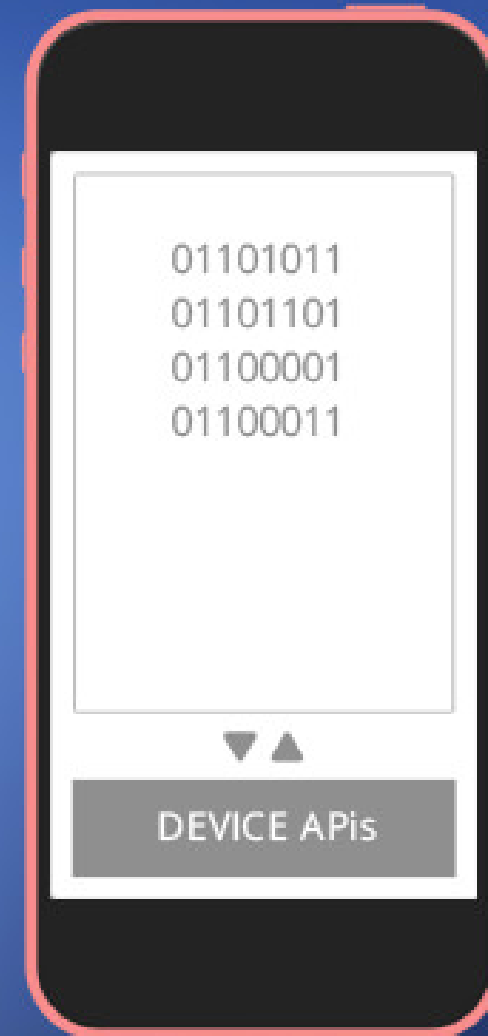
MOBILE WEB

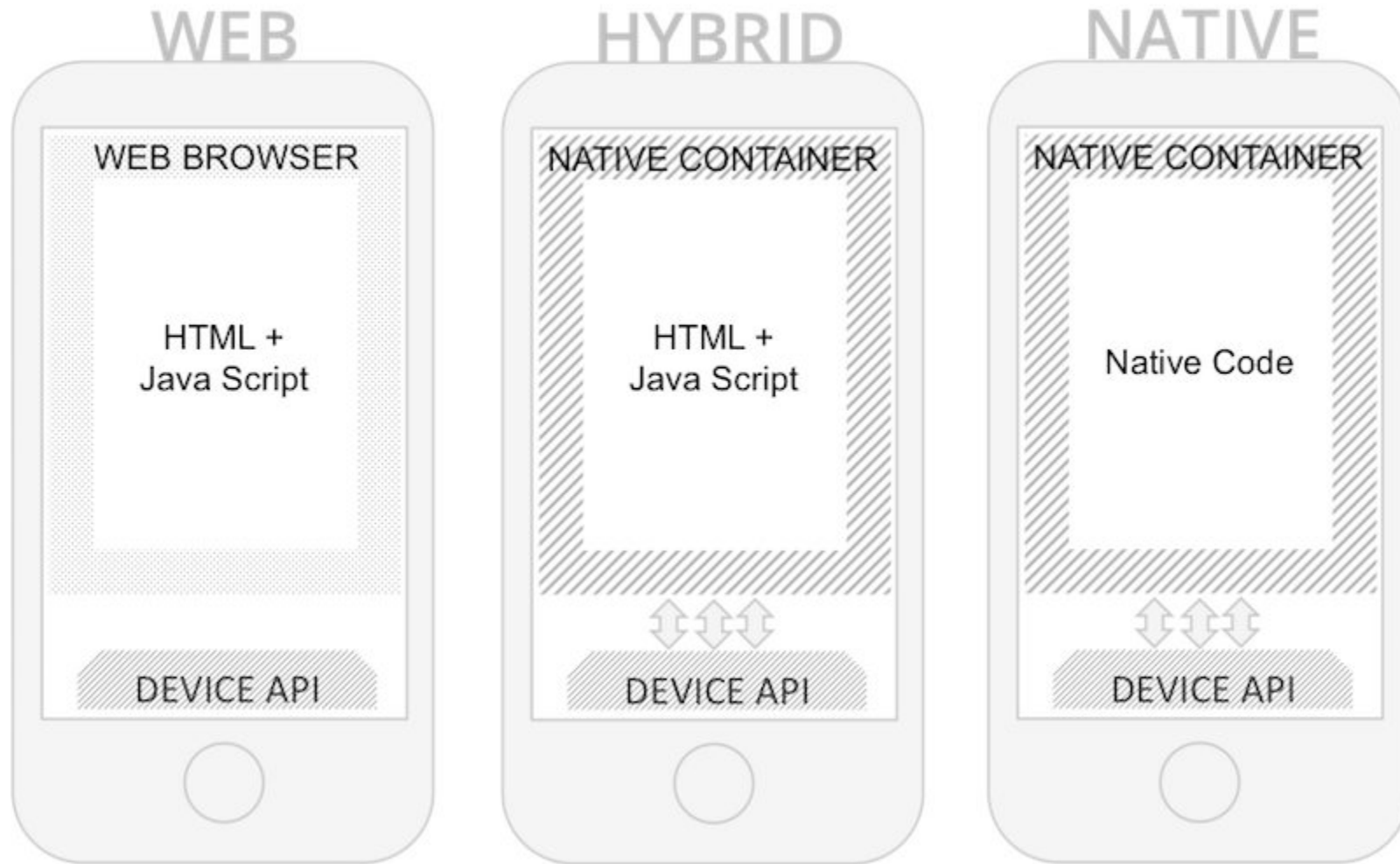


HYBRID NATIVE






PURE NATIVE





Development Options

| FEATURE |  WEB APP |  HYBRID APP |  NATIVE APP |
|----------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Code Bases | 1 | 1 | Multiple |
| Server Side Updates | Yes | Yes | No |
| Web Technologies | Yes | Yes | Limited |
| Responsive Design | Yes | Yes | No |
| Touch Gestures | Yes | Yes | Yes |
| Feels Like App | No | Yes | Yes |
| Native Functionality | Limited | Yes | Yes |
| Performance | Moderate | Moderate | Fast |
| Offline Capability | Moderate | Yes | Yes |
| User Experience | Limited | Moderate | Full |
| Development Cost | Minimal | Moderate | High |
| Development Process | Fast | Moderate | Slow |
| Difficulty Level | Easy | Advanced | Very Difficult |
| App Store Deployment | No | Yes | Yes |

Saker att tänka på vid hybridappar

- HTML5 is NOT better than native, but it rarely matters
- It is possible to create iOS applications without a Mac
- You need to use a HTML5 framework, and you need to choose a good one
- HTML5 can do EVERYTHING native can do
- There are elitist native developers and defensive HTML5 developers
- The DOM is the biggest determining factor for performance
- Debugging is sometimes awesome, sometimes difficult

<https://www.joshmorony.com/7-lessons-from-3-years-of-html5-mobile-application-development/>

Vilka appar är hybridappar?



Verktyg för att skapa hybridappar?



Phone**Gap**



appcelerator[®] titanium[™]



Sencha

Download Xamarin.

Xamarin turns you into a multi-platform mobile developer virtually overnight.

[Download now](#)

Xamarin apps look and feel native because they are.



Native User Interfaces

Xamarin apps are built with standard, native user interface controls. Apps not only look the way the end user expects, they behave that way too.



Native API Access

Xamarin apps have access to the full spectrum of functionality exposed by the underlying platform and device, including platform-specific capabilities like iBeacons and Android Fragments.



Native Performance

Xamarin apps leverage platform-specific hardware acceleration, and are compiled for native performance. This can't be achieved with solutions that interpret code at runtime.



Build great mobile experiences faster

Native apps. Mobile APIs. Real-time analytics. **One Platform.**

Start for free with email

Go

or



The Appcelerator Platform

Everything you need to create great, native mobile apps—all from a single JavaScript code base.

Get Ext JS

Build feature-rich cross-platform web apps for desktop, tablets, and smartphones. Take advantage of powerful features in Ext JS Premium including Pivot Grid, D3 Adapter, Calendar, and Exporter.

[LEARN MORE](#)[BUY NOW](#)

Rapidly build data-intensive, cross-platform web applications

[more](#)

EXPLORE THE SENCHA PLATFORM

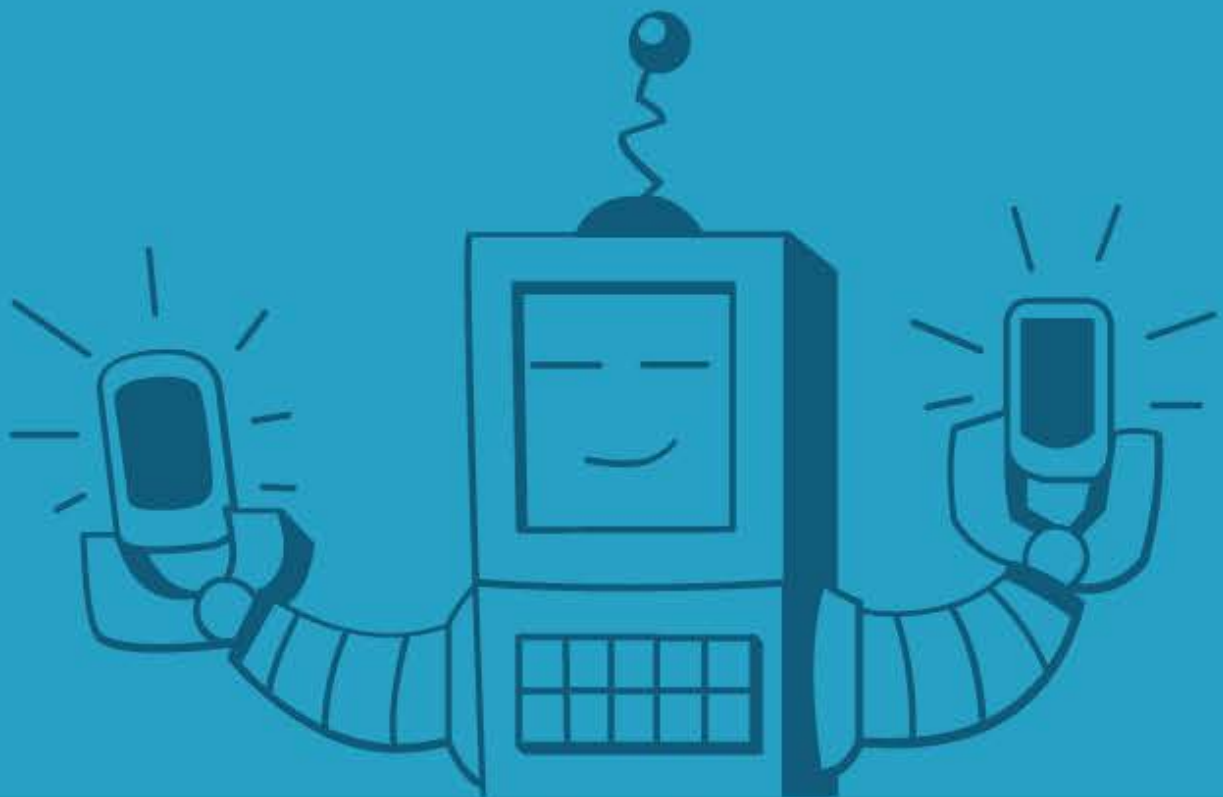
Design

Develop

Test



Build amazing mobile apps powered by open web tech.

[START NOW](#)[LEARN MORE](#)

Create your app with PhoneGap

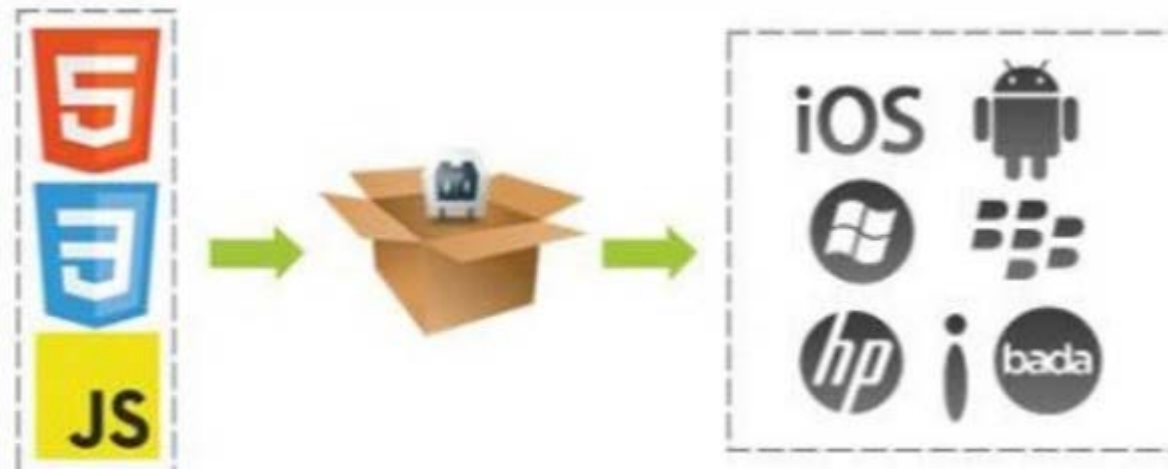
Reuse existing web development skills to quickly make hybrid applications built with HTML, CSS and JavaScript. Create experiences for multiple platforms with a single codebase so you can reach your audience no matter their device.

Package your app in the cloud

PhoneGap Build takes the pain out of compiling PhoneGap apps. Get app-store ready apps without the headache of maintaining native SDKs. Our PhoneGap Build service does the work for you by compiling in the cloud.

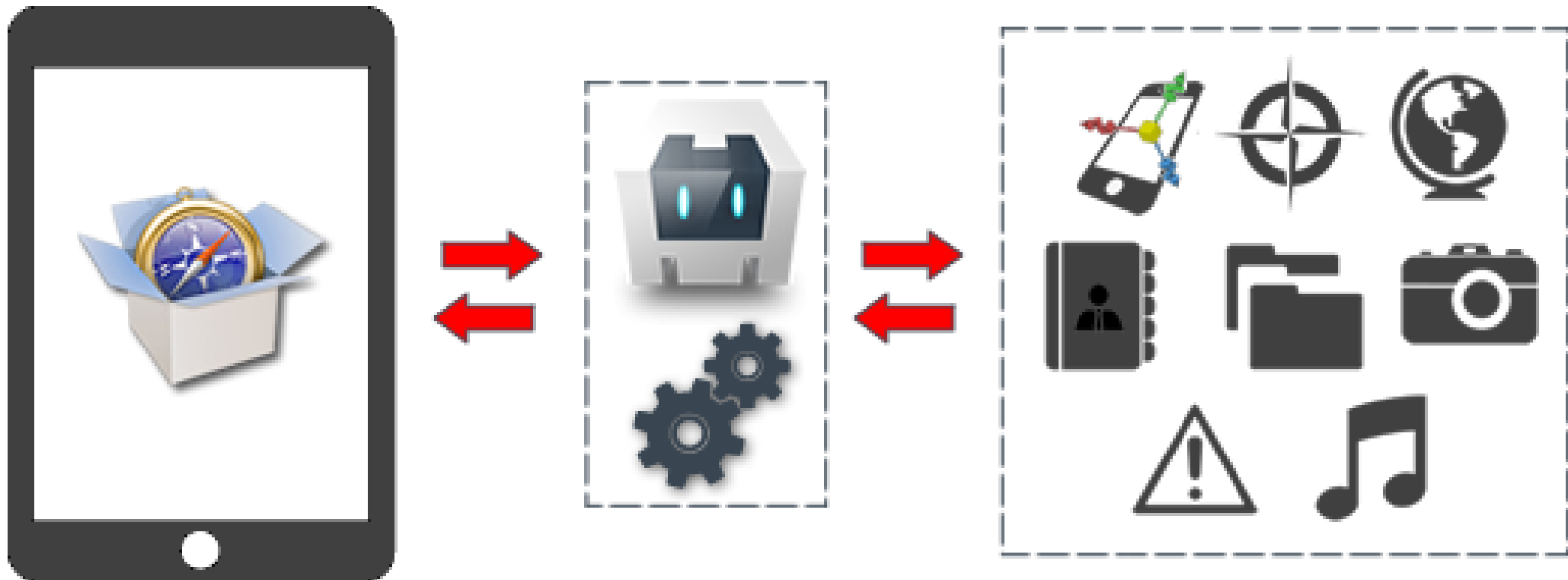
Friends don't
let friends
write native
code.

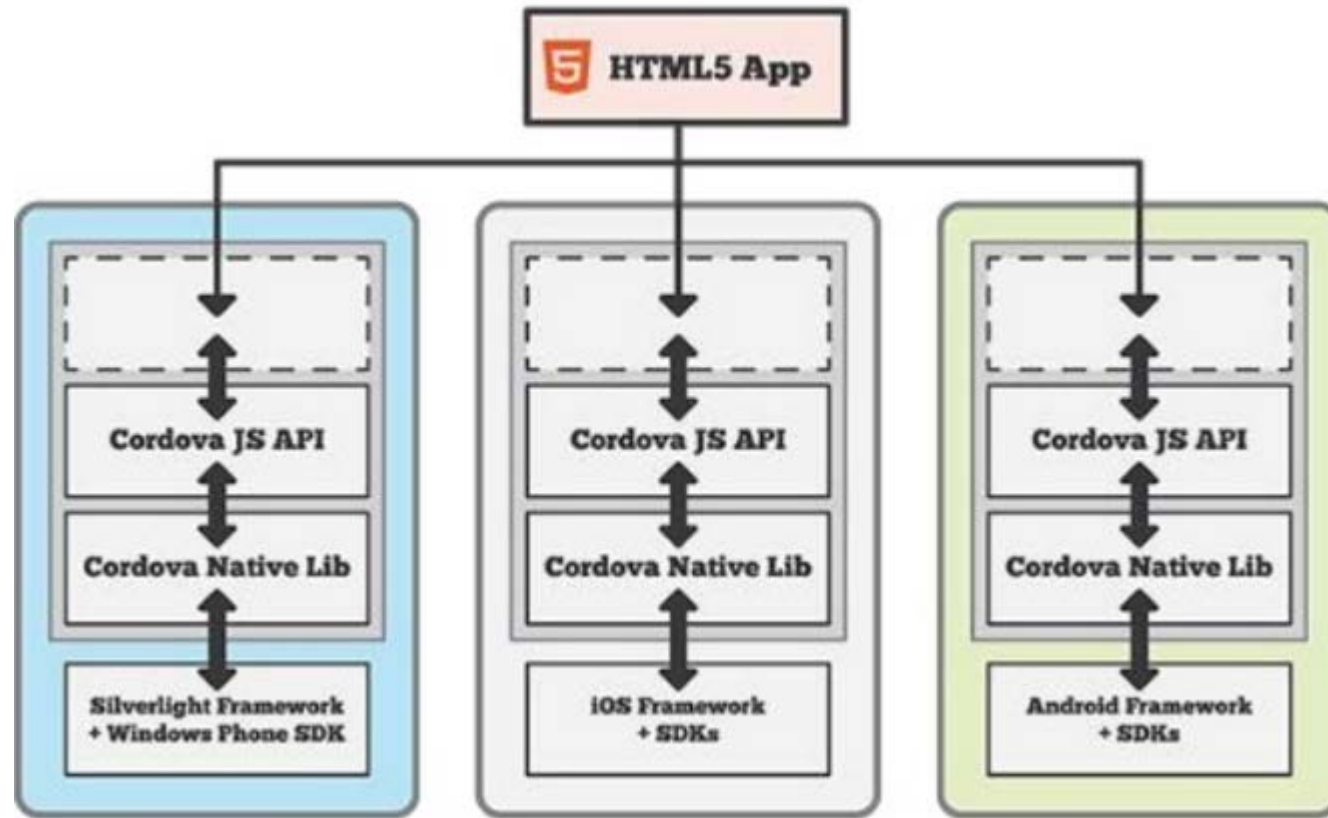




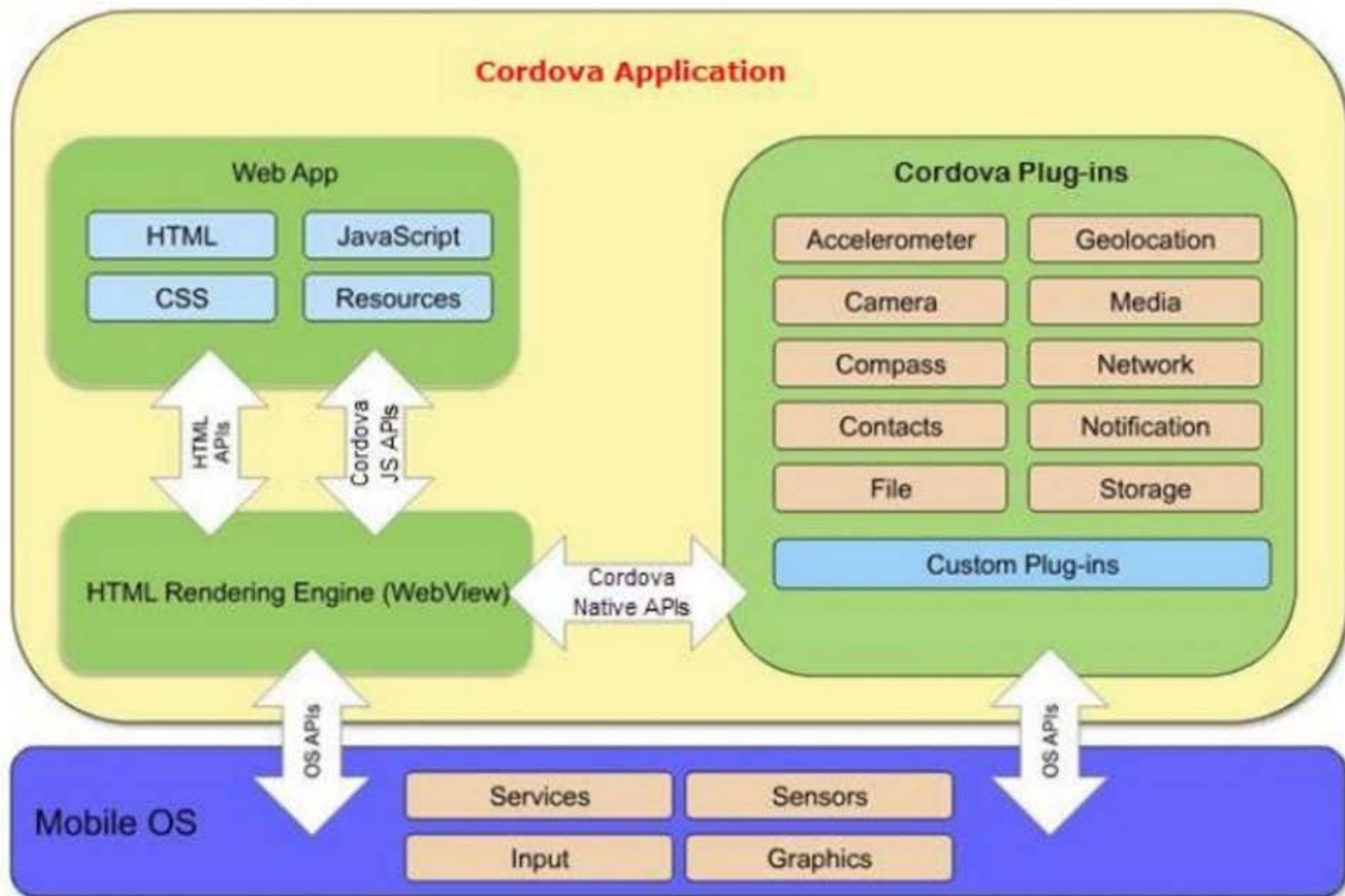
En kodbas till flera enheter

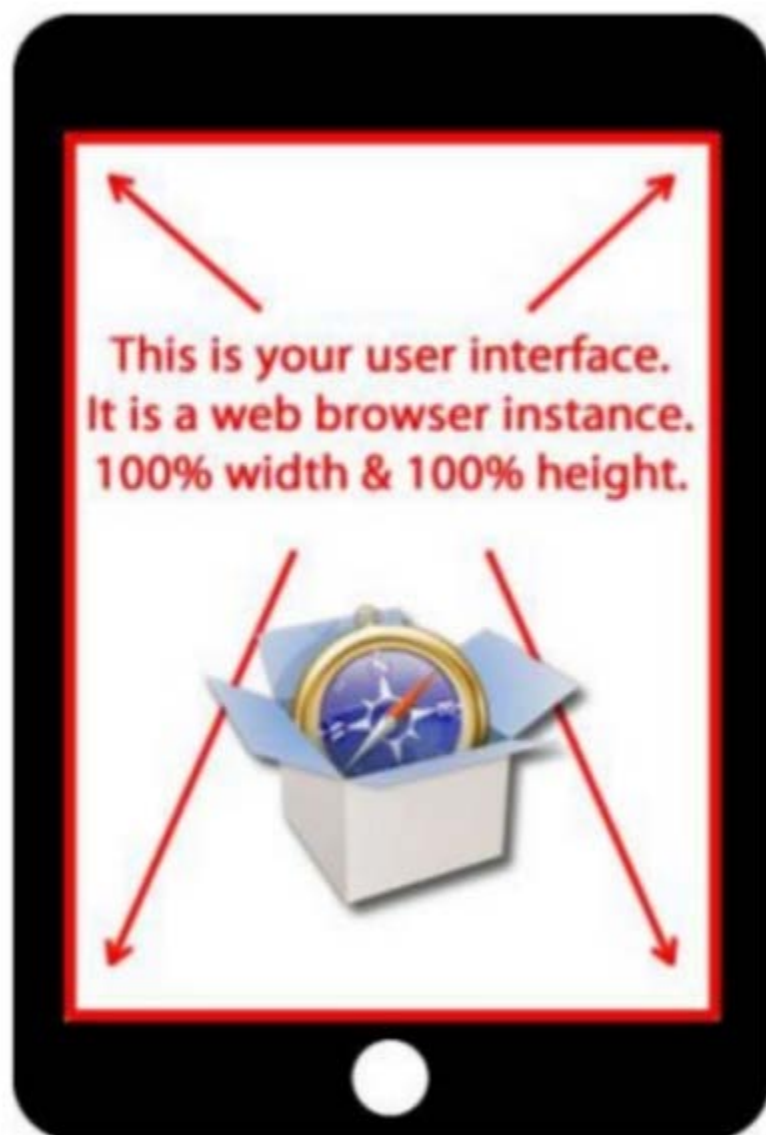
Att komma åt "native" API hos enheten



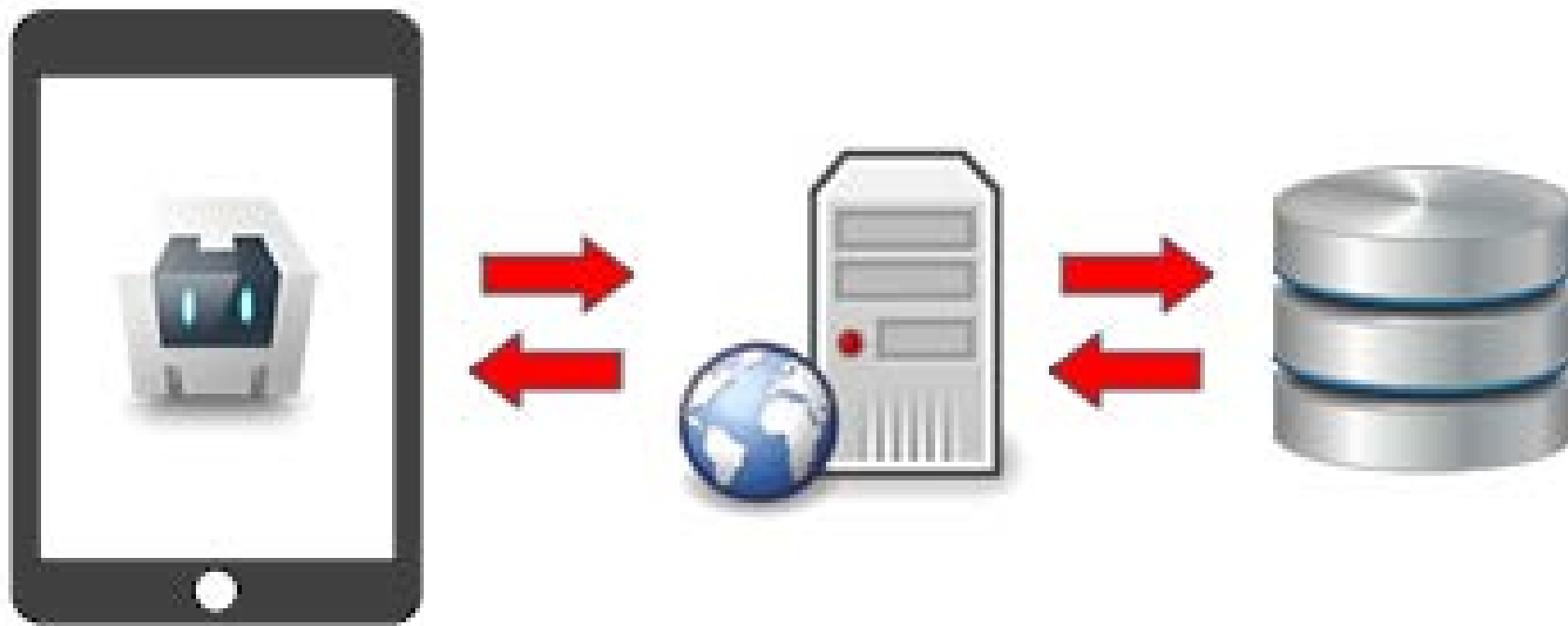


Använd de native APIs





Exempelarkitektur






Core Plugins

The most current version of the Cordova Core Plugin APIs are found in their respective GitHub repositories linked to below:

- [Battery Status](#)
- [Camera](#)
- [Contacts](#)
- [Device Info](#)
- [Device Motion \(accelerometer\)](#)
- [Device Orientation \(compass\)](#)
- [Dialogs \(notification\)](#)
- [File](#)
- [File Transfer](#)
- [Geolocation](#)
- [Globalization](#)
- [InAppBrowser](#)
- [Media](#)
- [Media Capture](#)
- [Network Information](#)
- [Splash Screen](#)
- [Status Bar](#)
- [Whitelist](#)
- [Vibration](#)

Cordova Plugins

Search 1599 plugins...



What is a Cordova plugin?

A plugin is a bit of add-on code that provides JavaScript interface to native components. They allow your app to use native device capabilities beyond what is available to pure web apps.

[+ Contribute Plugins](#)[? Plugin Help](#)

Must Support Platform(s):





| | | | | | |
|---------|-----|---------|------------|--------|------------|
| Android | iOS | Windows | Blackberry | Ubuntu | Firefox OS |
| macOS | WP8 | Browser | | | |

1599 result(s) found

Sort: Downloads▼

ionic-plugin-keyboard

Ionic Keyboard Plugin



v2.2.1 by **tlancina**


Apache

86 438 downloads last month

Last updated 92 days ago

cordova-plugin-crosswalk-webview

Changes the default WebView to CrossWalk



v2.2.0 by **fujunwei**

Apache

19 367 downloads last month

Last updated 110 days ago

phonegap-template-hello-world

> A Hello World template built with PhoneGap

v4.0.3 by **stevegill**

Apache-2.0

15 373 downloads last month

Kom igång med PhoneGap

<http://phonegap.com/getstarted/>

Getting Started

This guide is geared to helping people new to PhoneGap get up and running as quickly as possible with the least amount of setup and time.

STEP 1:

Install PhoneGap

STEP 2:

Install Mobile App

STEP 3:

Create Your App

STEP 4:

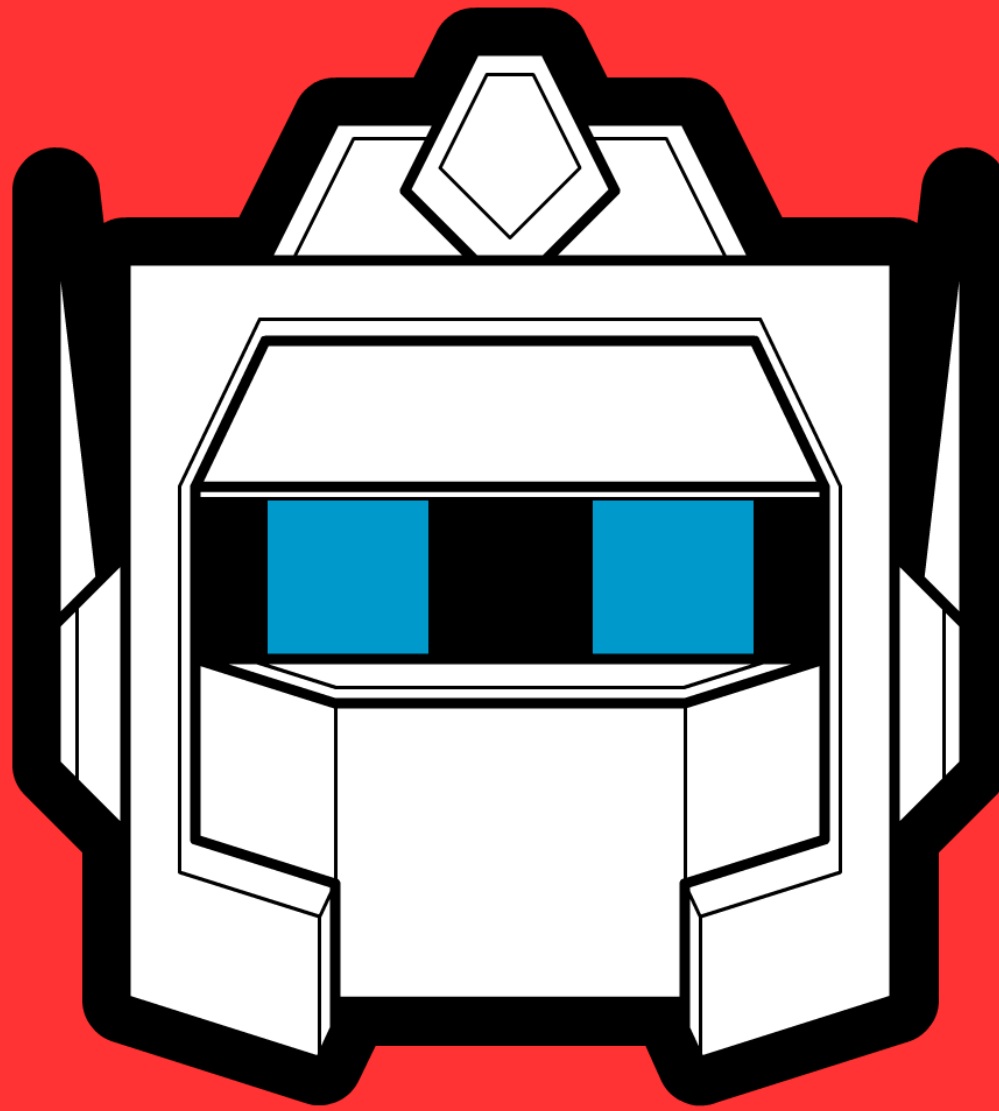
Preview Your App

STEP 5:

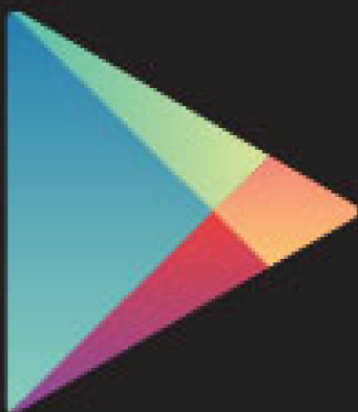
Going Further

Kom igång med PhoneGap

<http://phonegap.com/getstarted/>

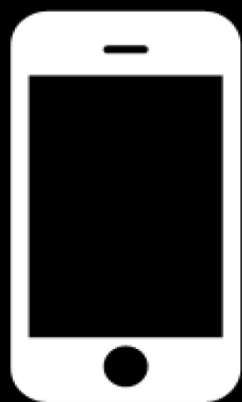






ANDROID APP ON

Google™ play



Available on the
App Store

App Showcase

Ever wondered who is building amazing apps using PhoneGap?

Narrow by platform: ☒ IOS ☒ ANDROID ☒ WINDOWS



FanReact
by FanReact



Localeur
by Localeur



snowbuddy
by We Make Awesome Sh



Sworkit
by Nexercise Inc



BrowserQuest
by Mads & Peter Sandberg
Brun



My Heart
Camera
by ANDG CO., LTD.



Yoga+Travel
by Velkat IT Solutions Inc. /
Yoga By Allison



TripCase
by Sabre



HealthTap - find
doctors and free
answers
by HealthTap



Untappd
by Untappd LLC



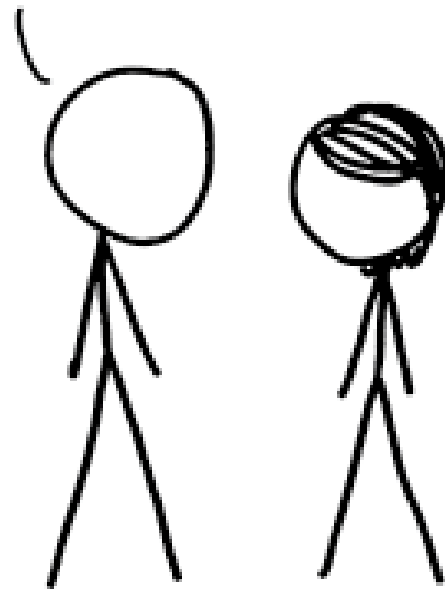
Hockey
Community
by Oki Technologies Inc.



Bit Timer
by Peiter Buick

INSTALLING THINGS HAS
GOTTEN SO FAST AND PAINLESS.

WHY NOT SKIP IT ENTIRELY,
AND MAKE A PHONE THAT HAS
EVERY APP "INSTALLED" ALREADY
AND JUST DOWNLOADS AND RUNS
THEM ON THE FLY?



I FELT PRETTY CLEVER UNTIL I
REALIZED I'D INVENTED WEBPAGES.