

Engaging Developer Communities: Lessons and Opportunities from webOS

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Transparency
+
Accessibility

Getting Started

Download and Install

http://developer.palm.com/





Developer Mode



upupdowndownleftrightleftrightbastart

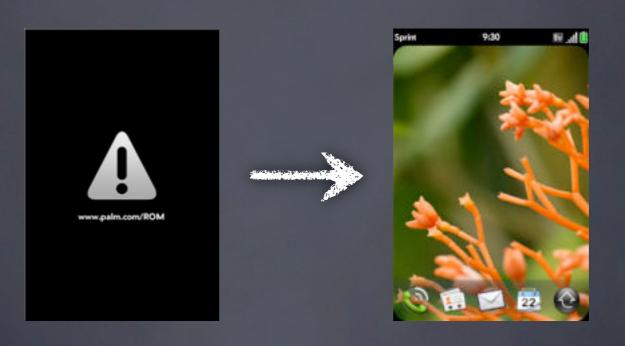
(webos20090606)

Developer Mode Demo

Project
Ares
Online
Development



Whoops! webOS Doctor



Developer APIs



SDK

Linux Kernel

ARM CPU

Hardware Graphics

SDK

App Process

HTML/Javascript Based App

Framework

Webkit

Linux Kernel

ARM CPU

Hardware Graphics

Accessible and Standards
Compliant
HTML5
Javascript & CSS

```
css main.css ‡
                                                             <No selected symbo
                                        /*Slider*/
                                        .sliderdiv {
       js first-assistant.js : FirstA
                                            width: 200px;
       this.model = {
                                        /*Gestures*/
           'original' : 'text to p
                                        .touch-pad {
45
           disabled: false
                                            width: 280px;
      }:
                                            height: 280px;
                                            margin: 20px auto;
      //Setup the textfield widge
                                            border: 1px solid #999;
       this.controller.setupWidget
                                            background-color: red;
                                     11
      this.buttonModel1 = {
                                     12
                                            position: relative;
           buttonLabel: 'Push to
                                     13 }
52
           buttonClass : ''.
           disable : false
                                        .gesture-report {
      this.butto
                                            margin: 10px 0px;
                  <div id="main"
           //type
                                            text-align: center;
                            <div c
57
                                     18 }
                             Ligh
                                     19 /* For the description in the main l
                            </div>
                                     20 #widgetList .preview {
       this.contro
       this.handle
                                            margin-top: -10px;
                   <div id="strin
      Mojo.Event.
                                            padding: 0 15px 10px 15px;
                   <div class="pa
   this.handleButt
                                     23 }
                   <div class="pa
                            <div class= balm-list >
                                    <div class="palm-row si
                                             <div class="pal
                                                      <div cl
                                                      <div id
                                                      </div>
                                             </div>
                                    </div>
                           </div>
```

<div x-mojo-element="Button" id="push h

Fully Functional Cross Platform
SDK Emulator





Linux Kernel

ARM CPU

Hardware Graphics

App Process

HTML/Javascript Based App

Framework

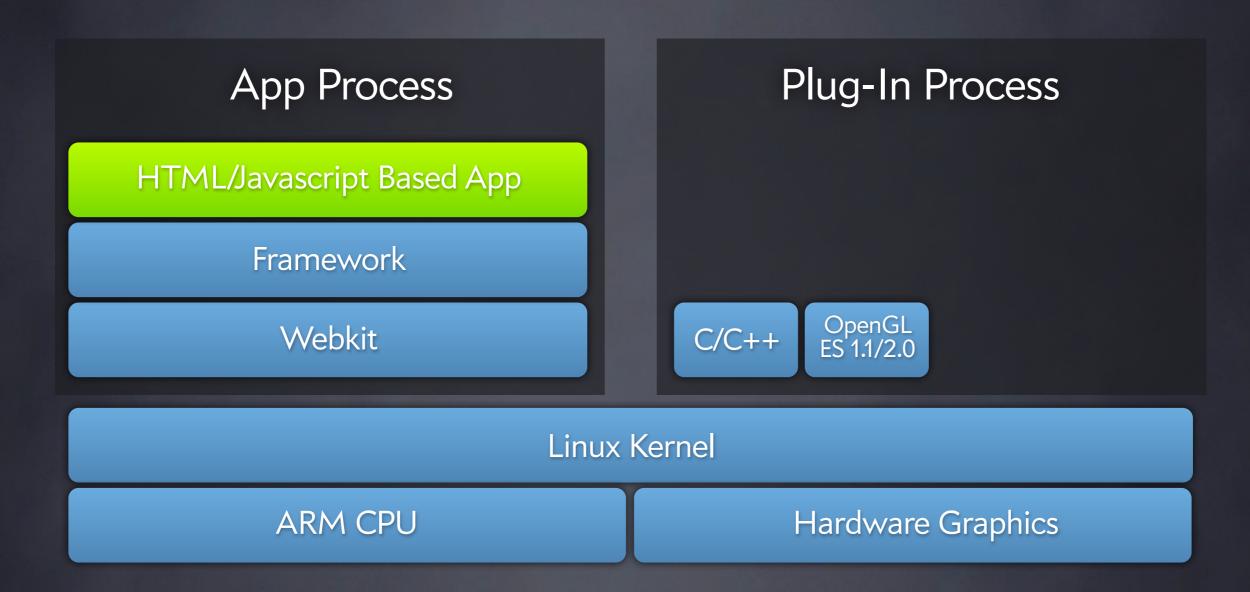
Webkit

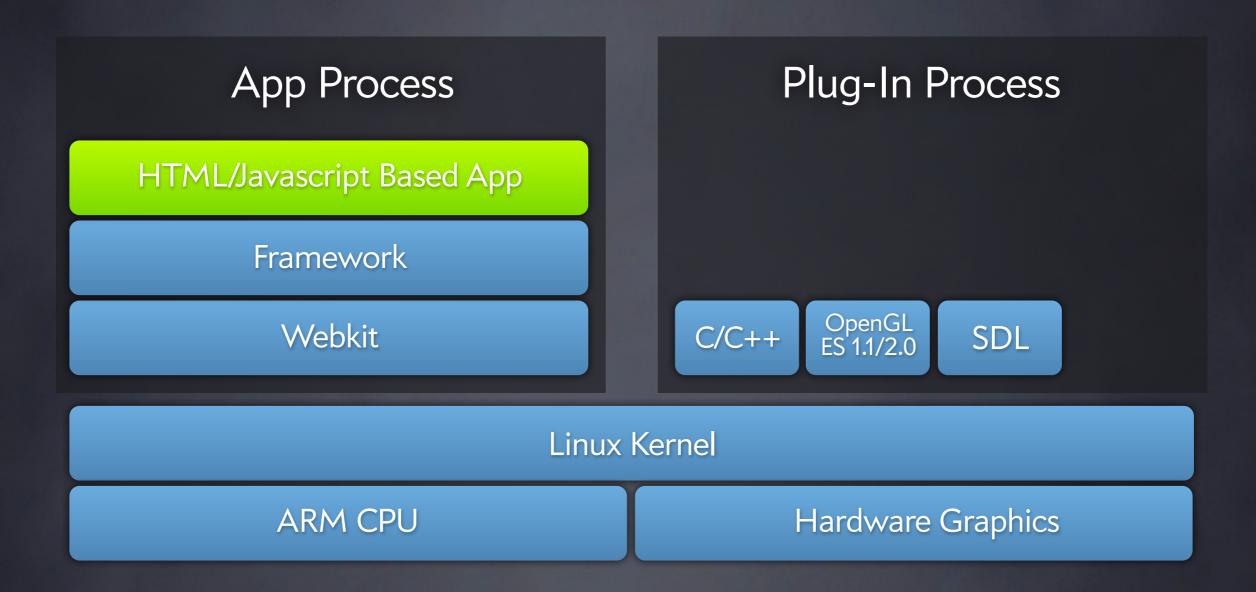
Linux Kernel

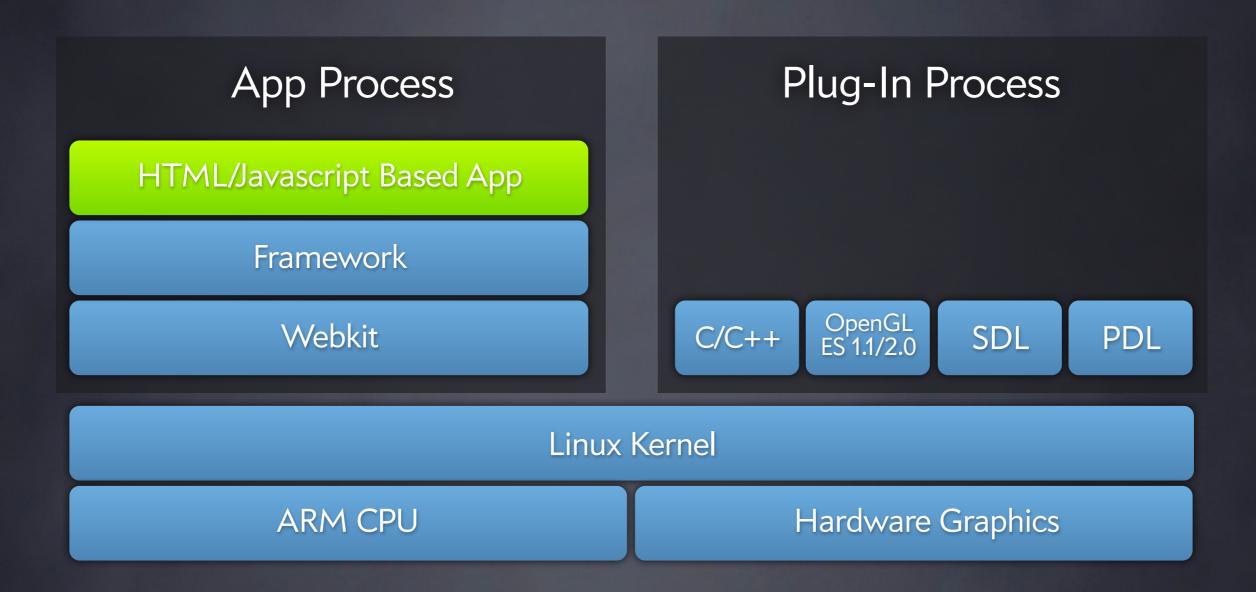
ARM CPU

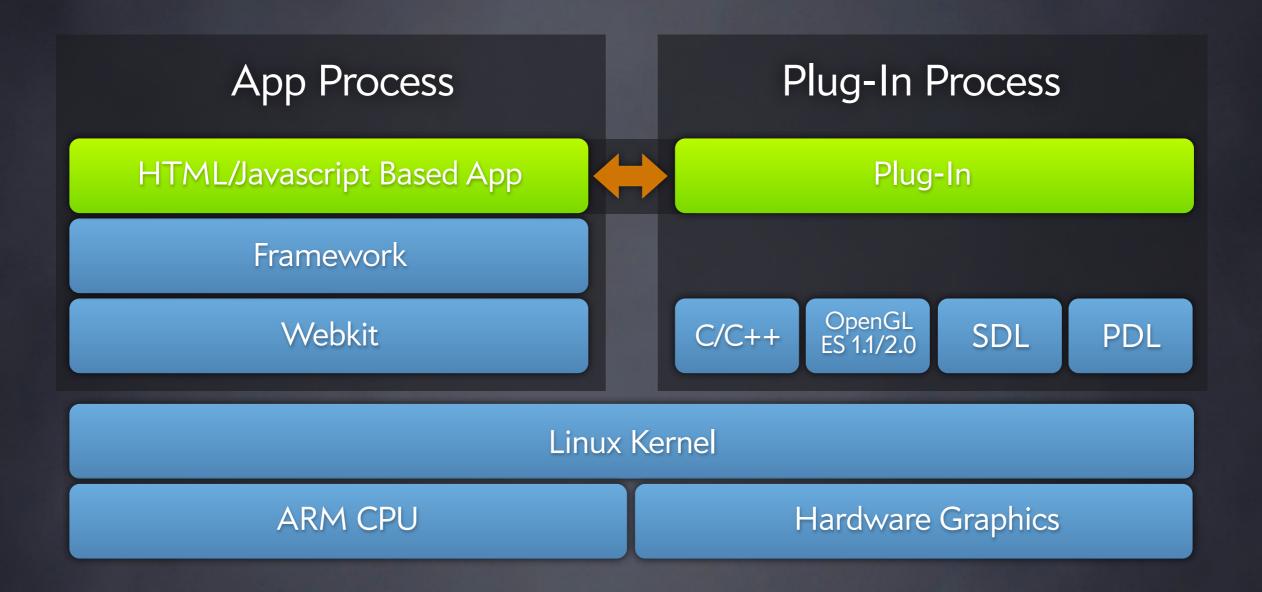
Hardware Graphics

App Process Plug-In Process HTML/Javascript Based App Framework C/C++ Webkit Linux Kernel ARM CPU Hardware Graphics









Stock SDL
OpenGL ES
C/C++ via gcc

ports in 7 days







Linux

Native ARM Applications

Linux Kernel

ARM CPU

Hardware Graphics

\$ novaterm
root@webos-device:/#

Native Tools

ipkg gzip awk grep

strace gdb oprofile vmstat iostat top

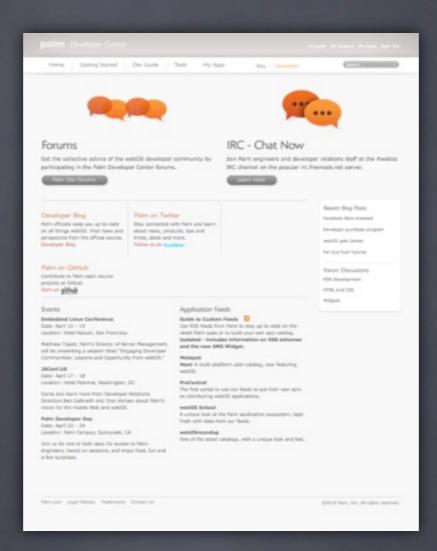
3rd Party Binaries

apache
php
optware = gcc
ctorrent
& 1319 more

Communities

(The one we created)

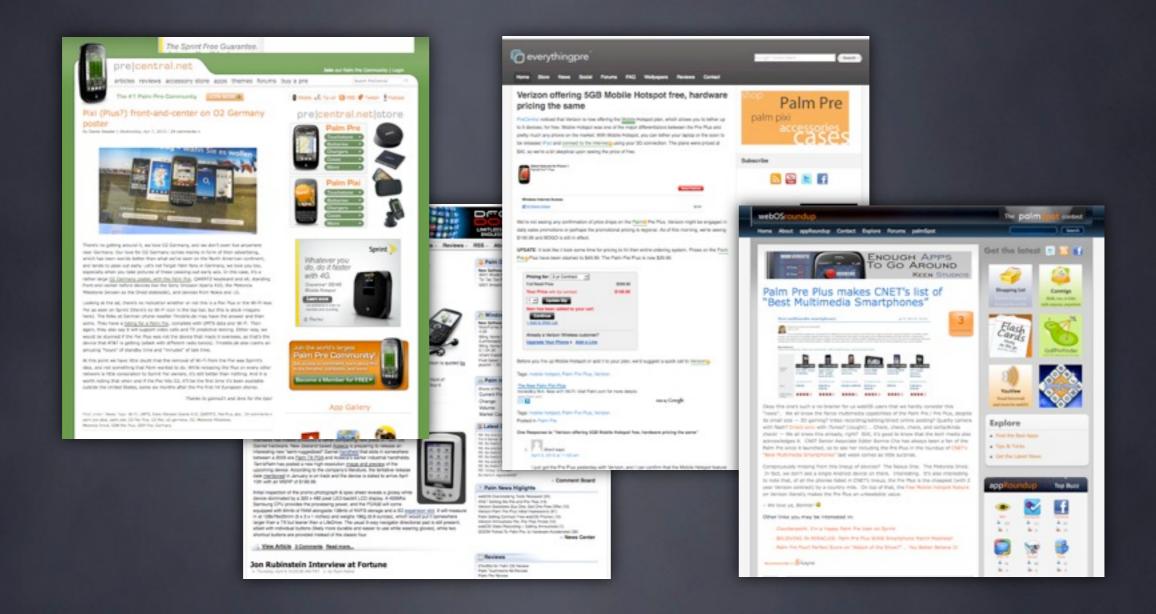
http://developer.palm.com/



Communities

(The ones we didn't create)

News and Community Sites



Homebrew Developers



http://webos-internals.org/

Deep Dive: webos-internals

Rooting the Pre

Hacking
Jailbreaking
Rooting

novaterm for a shell

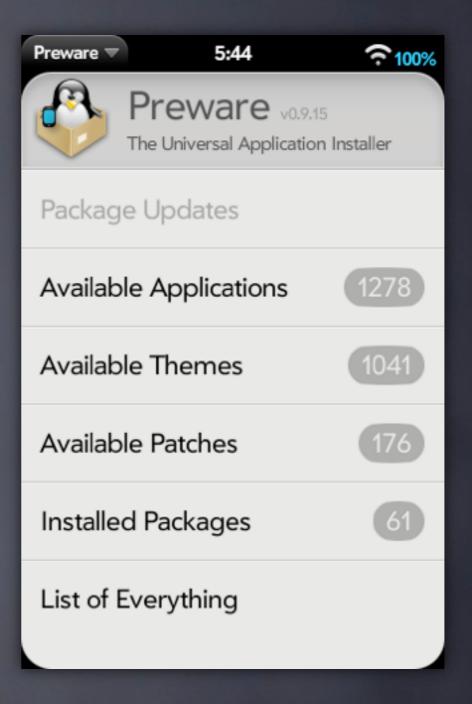
Hardware

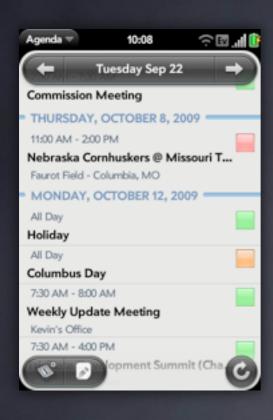
Accelerometer
Ambient Light Sensor
LEDs (all of them)
Vibrator
LED/flashlight

ARM

http://opensource.palm.com/

Preware



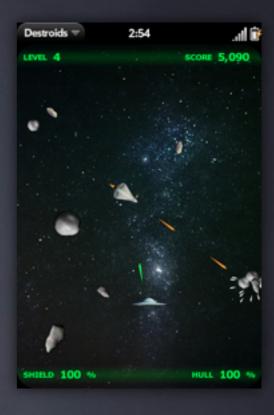






Applications











Themes







Patches



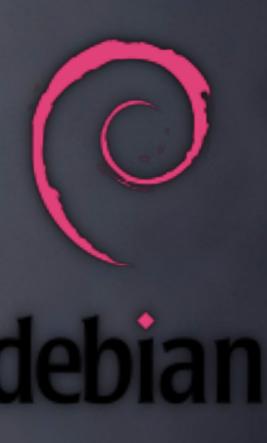






Alternate Universes





Community Discussions



IRC

Join us in #webos-internals 🐶

The same rules apply as those on the wiki for discussion.



webOS Patches

Discuss about webOS Patches and its fu



Homebrew Apps

Download and discuss beta test webOS are under development and may not be

Developer Ambassadors







Transparency
+
Accessibility



