

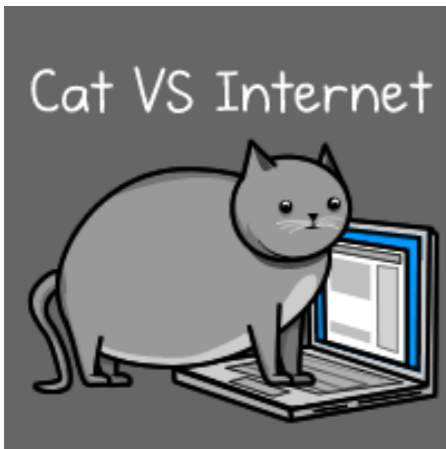
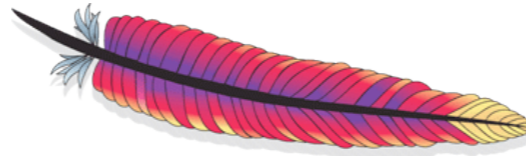
Android 3.0



Portland Java User Group
Sean Sullivan
March 15, 2011

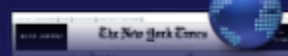


- Introduction
- Android devices
- Android 3.0
- App development



xkcd





D Tap Icon to change **25**

DD	9:05pm
Pictures from your visit	
東洗	8:54pm
Shasta recommendations ... — Here are some places that I think we should visit when	
friends@gmail.com	Jan 24
Meet tonight? — A few of us are planning to meet tonight at	



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Browser



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Music



Camera





Mobile World Congress
February 2011



March 8, 2011 9:53 AM PST

Android leaps beyond RIM to take top spot in U.S. market

by Scott Webster

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Android is the now most popular mobile platform for smartphones in the United States, says a study released yesterday. According to the ComScore survey, Google's OS

Top Smartphone Platforms
3 Month Avg. Ending Jan. 2011 vs. 3 Month Avg. Ending Oct. 2010
Total U.S. Smartphone Subscribers Ages 13+
Source: comScore MobiLens


Share (%) of Smartphone Subscribers

Top Smartphone Platforms

3 Month Avg. Ending Jan. 2011 vs. 3 Month Avg. Ending Oct. 2010

Total U.S. Smartphone Subscribers Ages 13+

Source: comScore MobiLens

	Share (%) of Smartphone Subscribers		
	Oct-10	Jan-11	Point Change
<i>Total Smartphone Subscribers</i>	100.0%	100.0%	N/A
Google 	23.5%	31.2%	7.7
RIM	35.8%	30.4%	-5.4
Apple	24.6%	24.7%	0.1
Microsoft	9.7%	8.0%	-1.7
Palm	3.9%	3.2%	-0.7

Twitter / Charlie Sheen: Android is ...

http://twitter.com/charliesheen/status/3.14159

Google


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twitter

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Android is #WINNING

12:49 PM Mar 15th via Twittelator
Retweeted by 100+ people



charliesheen
Charlie Sheen

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Android phones



2008



2009



2010



2011

Android tablets

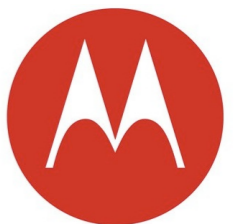












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MOTOROLA XOOM™

Experience

MOTOROLA XOOM has a super-powerful dual-core processor and Android™ 3.0 (Honeycomb) – the Android platform designed specifically for tablets. With its 10.1-inch HD widescreen display, you'll enjoy HD video in a thin, light, and powerful tablet.

→ GET EXCITED

→ USER GUIDE (VERIZON)



KEY FEATURES

Large 10.1-inch HD widescreen display

Free 4G LTE Upgrade (Future 4G LTE upgrade applies to the original purchase. Visit VerizonWireless.com/Xoom4GLTEUpgrade for details.)

Dual-core 1 GHz processor

Android 3.0 (Honeycomb) designed specifically for tablets

2 MP webcam and 5 MP camera with 720p HD video capture and playback

→ VIEW ALL TECH SPECS

ACCESSORIES

XOOM tech specs



- Android 3.0
- 10.1 inch touchscreen display
- 1280 x 800
- 160 dpi

XOOM tech specs



- NVIDIA Tegra 2 dual-core chipset
- HDMI connector
- two cameras
- no physical keyboard

Google Phone Gallery

http://www.google.com/phone/#manufacturer=all&category=all&carrier=all&count RSS

Google

Google phone gallery

Sort by: **Newest** | [Alphabetical](#)

All Phones
Phones with Google

All Manufacturers
Dell
HTC
LG
Motorola
Samsung
Sony Ericsson

All Operators
AT&T
Cellular South
Sprint
T-Mobile
US Cellular
Verizon

United States

More countries, operators, and phones coming soon!

MOTOROLA XOOM™ with Google

The Next, Next Generation

Experience the future with MOTOROLA XOOM, the world's first tablet powered by Android 3.0 (Honeycomb).

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Buy from 2 sellers

MOTOROLA ATRIX™ 4G

MOTOROLA ATRIX 4G the world's most powerful smartphone.

Add to comparison

Buy from

at&t

Dell Streak 7

Introducing Dell™ Streak 7. Share photos, videos and movies together. It's small enough to carry around, big enough to gather around.

Add to comparison

Buy from 2 sellers

2 errors occurred in opening the page. For more information, choose Window > Activity.



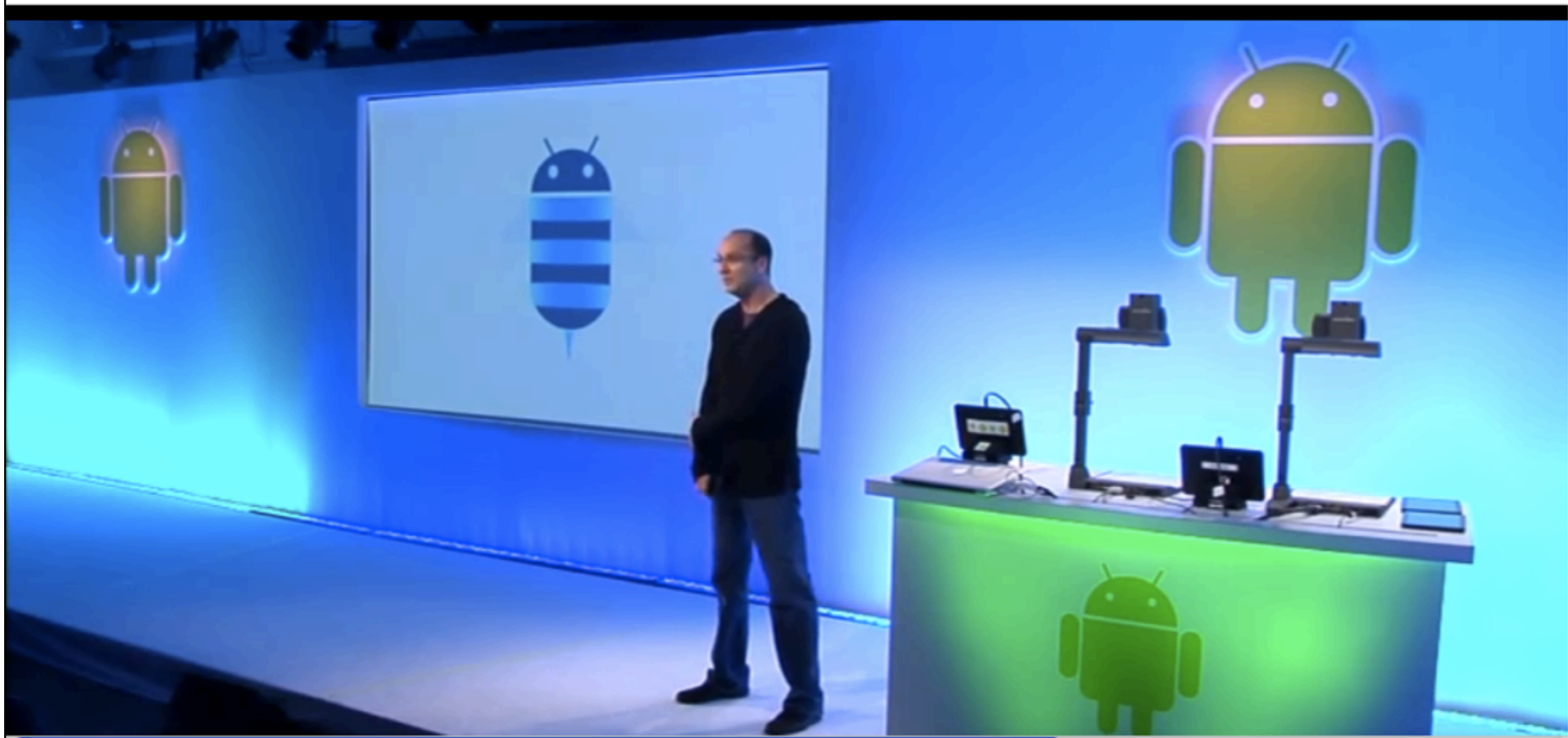


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What's new in Android 3.0?



Android SDK Starter Package

[Download](#)[Installing the SDK](#)

Downloadable SDK Components

[Adding SDK Components](#)[Android 3.0 Platform **new!**](#)

Platform Highlights

[API Differences Report »](#)[▶ Android 2.3.3 Platform **new!**](#)[▶ Android 2.3 Platform](#)[Android 2.2 Platform](#)[Android 2.1 Platform](#)[Android 1.6 Platform](#)

Android 3.0 Platform Highlights

Welcome to Android 3.0!

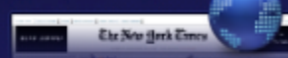
The Android 3.0 platform introduces many new and exciting features for users and developers. This document provides a glimpse of some of the new features and technologies, as delivered in Android 3.0. For a more detailed look at new developer APIs, see the [Android 3.0 Platform](#) document.

- [New User Features](#)
- [New Developer Features](#)



- 'holographic' UI theme
- Action Bar
- Fragments
- Drag and Drop
- Digital Rights Management
- and more...

‘holographic’ UI



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Browser



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Camera

Action Bar

“The Action Bar is a widget for activities that replaces the traditional title bar at the top of the screen.

By default, the Action Bar includes the application logo on the left side, followed by the activity title, and any available items from the Options Menu on the right side.”

Action Bar

EmailAccount1				
 Inbox 18	<input type="checkbox"/>	gears@googlecode.com	Re: Issue 749 in gears: Gears 0.4.20.0 not compatible with Firefox 3.1 Beta 1 — Comment #43 on issue 749 by jesdisci...@gmail.co...	Jan 29 
 Trash	<input type="checkbox"/>	gears@googlecode.com	Re: Issue 749 in gears: Gears 0.4.20.0 not compatible with Firefox 3.1 Beta 1 — Comment #42 on issue 749 by jesdisci...@...	Jan 29 
Personal	<input type="checkbox"/>	googleappengine@google.com	Re: Issue 1787 in googleappengine: Eclipse Web Toolkit Platform (WTP) Adapter for the Locally Running GAE Develo...	Jan 12 
Receipts	<input type="checkbox"/>	Google Buzz	Important Information about Google Buzz Class Action Settlement — Google rarely contacts Gmail users via email, but...	11/2/2010 
Travel	<input type="checkbox"/>	googleappengine@google.com	Re: Issue 1787 in googleappengine: Eclipse Web Toolkit Platform (WTP) Adapter for the Locally Running GAE Develo...	10/5/2010 
Work	<input type="checkbox"/>	googleappengine@google.com	Re: Issue 1787 in googleappengine: Eclipse Web Toolkit Platform (WTP) Adapter for the Locally Running GAE Development Server ...	9/29/2010 
[Gmail]/All Mail	<input type="checkbox"/>	Gmail Team	Get through your email faster with Gmail Priority Inbox — < http://mail.google.com/mail/help/intl/en/priority-inbox.html > [image: g...	9/26/2010 
[Gmail]/Drafts	<input type="checkbox"/>	googleappengine@google.com	Re: Issue 1787 in googleappengine: Eclipse Web Toolkit Platform (WTP) Adapter for the Locally Running GAE Development Server ...	9/26/2010 
[Gmail]/Important				
[Gmail]/Sent Mail				

Using the Action Bar | Android Developers

http://developer.android.com/guide/topics/ui/actionbar.html

Reader Google

Using the Action Bar | Android De... +

English Android.com

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ANDROID developers

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Android Basics

- What Is Android?
- Application Fundamentals

Framework Topics

- ▶ Activities *new!*
- ▶ Services
 - Content Providers
 - Intents and Intent Filters
 - Processes and Threads
- ▼ User Interface
 - Declaring Layout
 - Creating Menus
 - Using the Action Bar *new!***
 - Creating Dialogs
 - Handling UI Events
 - ▶ Notifying the User
 - Dragging and Dropping *new!*
 - Applying Styles and Themes
 - Building Custom Components

User Interface >

Using the Action Bar

The Action Bar is a widget for activities that replaces the traditional title bar at the top of the screen. By default, the Action Bar includes the application logo on the left side, followed by the activity title, and any available items from the Options Menu on the right side. The Action Bar offers several useful features, including the ability to:

- Display items from the [Options Menu](#) directly in the Action Bar, as "action items"—providing instant access to key user actions.

Menu items that do not appear as action items are placed in the overflow menu, revealed by a drop-down list in the Action Bar

Quickview

- A replacement for the title bar that includes the application icon and activity title
- Provides action items from the Options Menu and modes of navigating around the application
- Supports custom views, including an embedded search box
- Requires API Level 11

In this document

- [Adding the Action Bar](#)
- [Removing the Action Bar](#)
- [Adding Action Items](#)
- [Using the app icon as an action item](#)
- [Adding an Action View](#)
- [Adding Tabs](#)
- [Adding Drop-down Navigation](#)
- [Styling the Action Bar](#)

Display a menu for "http://developer.android.com/guide/topics/ui/actionbar.html"

ActionBar | Android Developers

http://developer.android.com/reference/android/app/ActionBar.html

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[Package Index](#) | [Class Index](#)

- android
- android.accessibilityservice
- android.accounts
- android.animation
- android.app**
- android.app.admin
- android.app.backup
- android.appwidget
- android.bluetooth
- android.content
- android.content.pm
- android.content.res
- android.database
- android.database.sqlite
- android.drm
- ActionBar
- ActionBar.Tab
- Activity
- ActivityGroup

public abstract class **ActionBar** Summary: [Nested Classes](#) | [Constants](#) | [Ctors](#) | [Methods](#) | [Inherited Methods](#) | [\[Expand All\]](#)
Since: API Level 11

extends [Object](#)

[java.lang.Object](#)
↳ android.app.ActionBar

Class Overview

This is the public interface to the contextual ActionBar. The ActionBar acts as a replacement for the title bar in Activities. It provides facilities for creating toolbar actions as well as methods of navigating around an application.

Summary

Use Tree Navigation

One error in opening the page. For more information, choose Window > Activity.

Fragments

“A Fragment represents a behavior or a portion of user interface in an Activity. You can combine multiple fragments in a single activity to build a multi-pane UI and reuse a fragment in multiple activities. You can think of a fragment as a modular section of an activity, which has its own lifecycle, receives its own input events, and which you can add or remove while the activity is running.”

- Fragments decompose application functionality and UI into reusable modules
- Add multiple fragments to a screen to avoid switching activities
- Fragments have their own lifecycle, state, and back stack
- Fragments require API Level "Honeycomb" or greater

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
```

```
<fragment class="com.example.android.apis.app.TitlesFragment"
    android:id="@+id/titles" android:layout_weight="1"
    android:layout_width="0px"
    android:layout_height="match_parent" />
```

```
<FrameLayout android:id="@+id/details" android:layout_weight="1"
    android:layout_width="0px"
    android:layout_height="match_parent" />
```

```
</LinearLayout>
```

```
public static class TitlesFragment extends ListFragment {
    private boolean mDualPane;
    private int mCurCheckPosition = 0;

    @Override
    public void onActivityCreated(Bundle savedInstanceState) {
        super.onActivityCreated(savedInstanceState);
        // do something here
    }

    @Override
    public void onSaveInstanceState(Bundle outState) {
        super.onSaveInstanceState(outState);
        outState.putInt("curChoice", mCurCheckPosition);
    }

    @Override
    public void onItemClick(ListView l, View v,
                            int pos, long id) {
        // do something here
    }
}
```


The image shows a browser window displaying the Android Developers documentation for the `android.app.Fragment` class. The browser's address bar shows the URL `http://developer.android.com/reference/android/app/Fragment.html`. The page header includes the Android Developers logo, a search bar, and navigation tabs for Home, SDK, Dev Guide, Reference (selected), Resources, Videos, and Blog. A filter by API Level is set to 11.

The main content area displays the following information:

- public class** `Fragment` (Since: API Level 11)
- extends `Object`
- implements `ComponentCallbacks`, `View.OnCreateContextMenuListener`
- Inheritance: `java.lang.Object` → `android.app.Fragment`
- Known Direct Subclasses: `DialogFragment`, `ListFragment`, `PreferenceFragment`, `WebViewFragment`
- Class Overview**: A Fragment is a piece of an application's user interface or behavior that can be placed in an `Activity`. Interaction with fragments is done through `FragmentManager`, which can be obtained via `Activity.getFragmentManager()` and `Fragment.getFragmentManager()`.

At the bottom of the browser window, a message states: "One error in opening the page. For more information, choose Window > Activity."



Fragments For All

Posted by Tim Bray on 03 March 2011 at 1:06 PM

[This post is by Xavier Ducrohet, Android SDK Tech Lead. — Tim Bray]

A few weeks ago, Dianne Hackborn [wrote](#) about the new [Fragments API](#), a mechanism that makes it easier for applications to scale across a variety of screen sizes.

However, as Dianne noted, this new API, which is part of Honeycomb, does not help developers whose applications target earlier versions of Android.

Today we've released a static library that exposes the same Fragments API (as well as the new [LoaderManager](#) and a few other classes) so that applications compatible with Android 1.6 or later can use fragments to create tablet-compatible user interfaces.

This library is available through the [SDK Updater](#); it's called "Android Compatibility package".

Drag and drop

DragEvent | Android Developers

http://developer.android.com/reference/android/view/DragEvent.html

English

search developer docs

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- android.telephony.gsm
- android.test
- android.test.mock
- android.test.suitebuilder
- android.text
- android.text.format
- android.text.method
- android.text.style
- android.text.util
- android.util
- android.view**
- android.view.accessibility
- android.view.animation

public class Summary: [Constants](#) | [Inherited Constants](#) | [Fields](#) | [Methods](#) | [Inherited Methods](#) | [\[Expand All\]](#)
Since: API Level 11

DragEvent

extends [Object](#)
implements [Parcelable](#)

[java.lang.Object](#)
↳ android.view.DragEvent

Go to #constants on this page

- android.telephony
- android.telephony.cdma
- android.telephony.gsm
- android.test
- android.test.mock
- android.test.suitebuilder
- android.text
- android.text.format
- android.text.method
- android.text.style
- android.text.util
- android.util

android.view

public static interface

Since: API Level 11

View.OnDragListener

android.view.View.OnDragListener

Class Overview

Interface definition for a callback to be invoked when a drag is

Renderscript

“The RenderScript rendering and computational APIs offer a low-level, high performance means of carrying out mathematical calculations and 3D graphics rendering.”

android.renderscript | Android Developers

http://developer.android.com/reference/android/renderscript/package-summary.html

android.renderscript | Android De...

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android.os
android.os.storage
android.preference
android.provider
android.renderscript
android.sax
android.service.wallpaper
android.speech
android.speech.tts

Classes
Allocation

Use Tree Navigation

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package **android.renderscript** **Since: API Level 11**

The Renderscript rendering and computational APIs offer a low-level, high performance means of carrying out mathematical calculations and 3D graphics rendering. An example of Renderscript in applications include the 3D carousel view that is present in Android 3.0 applications such as the Books and YouTube applications. This API is intended for developers who are comfortable working with native code and want to maximize their performance critical applications.

Renderscript adopts a control and slave architecture where the low-level native code is controlled by the higher level Android system that runs in the virtual machine (VM). The VM code handles resource allocation and lifecycle management of the Renderscript enabled application and calls the Renderscript code through high level entry points. The Android build tools generate these entry points through reflection on the native Renderscript code, which you write in C (C99 standard). The Renderscript code does the intensive computation and returns the result back to the Android VM.

You can find the Renderscript native APIs in the `<sdk_root>/platforms/android-3.0/renderscript` directory. The Android system APIs are broken into a few main groups:

Core

New animation API

android.animation | Android Developers

http://developer.android.com/reference/android/animation/package-summary.html

English Android.com

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- android.app.backup
- android.appwidget
- android.bluetooth
- android.content
- android.content.pm
- android.content.res
- android.database
- android.database.sqlite
- android.drm

Interfaces

- Animator.AnimatorListener

Use Tree Navigation

One error in opening the page. For more information, choose Window > Activity.

package **android.animation** Since: API Level 11

These classes provide functionality for the property animation system, which allows you to animate object properties of any type. `int`, `float`, and hexadecimal color values are supported by default. You can animate any other type by telling the system how to calculate the values for that given type with a custom [TypeEvaluator](#).

You can set many different types of interpolators (contained in [android.view.animation](#)), specify [keyframes](#), or group animations to play sequentially or simultaneously (with [AnimatorSet](#)) to further control your animation behaviors.

For a guide on how to use the property animation system, see the [Animation](#) developer guide.

Interfaces

Animator.AnimatorListener	An animation listener receives notifications from an
---------------------------	--

Digital Rights Management API

android.drm | Android Developers

http://developer.android.com/reference/android/drm/package-summary.html

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 android.database.sqlite
android.drm
 android.gesture
 android.graphics
 android.graphics.drawable
 android.graphics.drawable.shapes
 android.hardware

Interfaces

DrmManagerClient.OnErrorListener
 DrmManagerClient.OnEventListener
 DrmManagerClient.OnInfoListener
 DrmStore.ConstraintColumn

Since: API Level 11

DrmManagerClient.OnErrorListener	Interface definition of a callback to be invoked to communicate the error occurred
DrmManagerClient.OnEventListener	Interface definition of a callback to be invoked to communicate the result of time consuming APIs asynchronously
DrmManagerClient.OnInfoListener	Interface definition of a callback to be invoked to communicate some info and/or warning about DrmManagerClient.
DrmStore.ConstraintColumn	Column representing drm constraints

Use Tree Navigation

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DrumManagerClient | Android Developers

http://developer.android.com/reference/android/drm/DrumManagerClient.html

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android.content.pm
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android.database
android.database.sqlite
android.drm
android.gesture
android.graphics
android.graphics.drawable
android.graphics.drawable.shapes
android.hardware
android.inet
DrmStore
DrmStore.Action
DrmStore.DrmObjectType
DrmStore.Playback
Use Tree Navigation

public class Summary: [Nested Classes](#) | [Constants](#) | [Ctors](#) | [Methods](#) | [Protected Methods](#) | [Inherited Methods](#) | [\[Expand All\]](#)
DrumManagerClient
Since: API Level 11
extends [Object](#)

[java.lang.Object](#)
↳ android.drm.DrumManagerClient

Class Overview

Interface of DRM Framework. Java application will instantiate this class to access DRM agent through DRM Framework.

Summary

One error in opening the page. For more information, choose Window > Activity.



The same security issues that have led to piracy concerns on the Android platform have made it difficult for us to secure a common Digital Rights Management (DRM) system on these devices. [...] Although we don't have a common platform security mechanism and DRM, we are able to work with individual handset manufacturers to add content protection to their devices.

November 2010

<http://blog.netflix.com/2010/11/netflix-on-android.html>



Unfortunately, this is a much slower approach and leads to a fragmented experience on Android, in which some handsets will have access to Netflix and others won't.

We will also continue to work with the Android community, handset manufacturers, carriers, and other service providers to develop a standard, platform-wide solution that allows content providers to deliver their services to all Android-based devices

November 2010

<http://blog.netflix.com/2010/11/netflix-on-android.html>

Application development

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SDK

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Android 3.0 is here!

Android 3.0 is now available for the Android SDK. It offers a redesigned UI and all new developer APIs for an optimized experience on tablets and similar devices. For more information about what's in Android 3.0, read the [version notes](#).

If you have an existing SDK, add Android 3.0 as an [SDK component](#). If you're new to Android, install the [SDK starter package](#).

service that lets you distribute your apps to handsets.

[Learn more »](#)



Contribute

Android Open Source Project gives you access to the entire platform source.

[Learn more »](#)



Target Devices

The Device Dashboard provides information about deployed Android devices to help you target suitable device configurations as you build and update your apps.



Android SDK | Android Developers

http://developer.android.com/sdk/index.html

English Android.com

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Android SDK Starter Package

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- ▶ Android 2.3 Platform
- Android 2.2 Platform
- Android 2.1 Platform
- Android 1.6 Platform
- Android 1.5 Platform
- ▶ Older Platforms
- SDK Tools, r10 **new!**
- Google USB Driver, r4

Download the Android SDK

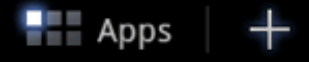
Welcome Developers! If you are new to the Android SDK, please read the steps below, for an overview of how to set up the SDK.

If you're already using the Android SDK, you should update to the latest tools or platform using the *Android SDK and AVD Manager*, rather than downloading a new SDK starter package. See [Adding SDK Components](#).

Platform	Package	Size	MD5 Checksum
Windows	android-sdk_r10-windows.zip	32832260 bytes	1e42b8f528d9ca6d9b887c58c6f1b9a2

One error in opening the page. For more information, choose Window > Activity.

Android emulator



Google



03:31

Emulator performance

About emulator performance

Because the Android emulator must simulate the ARM instruction set on your computer and the WXGA screen is significantly larger than a typical virtual device, emulator performance is much slower than a real device.

*In particular, initializing the emulator can be slow and **can take several minutes**, depending on your hardware. When the emulator is booting, there is limited user feedback, so please be patient and wait until you see the home screen (or lock screen) appear.*

However, you don't need to boot the emulator each time you rebuild your application—typically you only need to boot at the start of a session and keep it running. Also see the tip below for information about using a snapshot to drastically reduce startup time after the first initialization.

We're working hard to resolve the performance issues and it will improve in future tools releases.



Install

Available Software
Check the items that you wish to install.

Work with:

Find more software by working with the ["Available Software Sites"](#) preferences.

type filter text

Name	Version
<input checked="" type="checkbox"/> Developer Tools	
<input checked="" type="checkbox"/> Android DDMS	10.0.0.v201102162101-104271
<input checked="" type="checkbox"/> Android Development Tools	10.0.0.v201102162101-104271
<input checked="" type="checkbox"/> Android Hierarchy Viewer	10.0.0.v201102162101-104271
<input checked="" type="checkbox"/> Android Traceview	10.0.0.v201102162101-104271

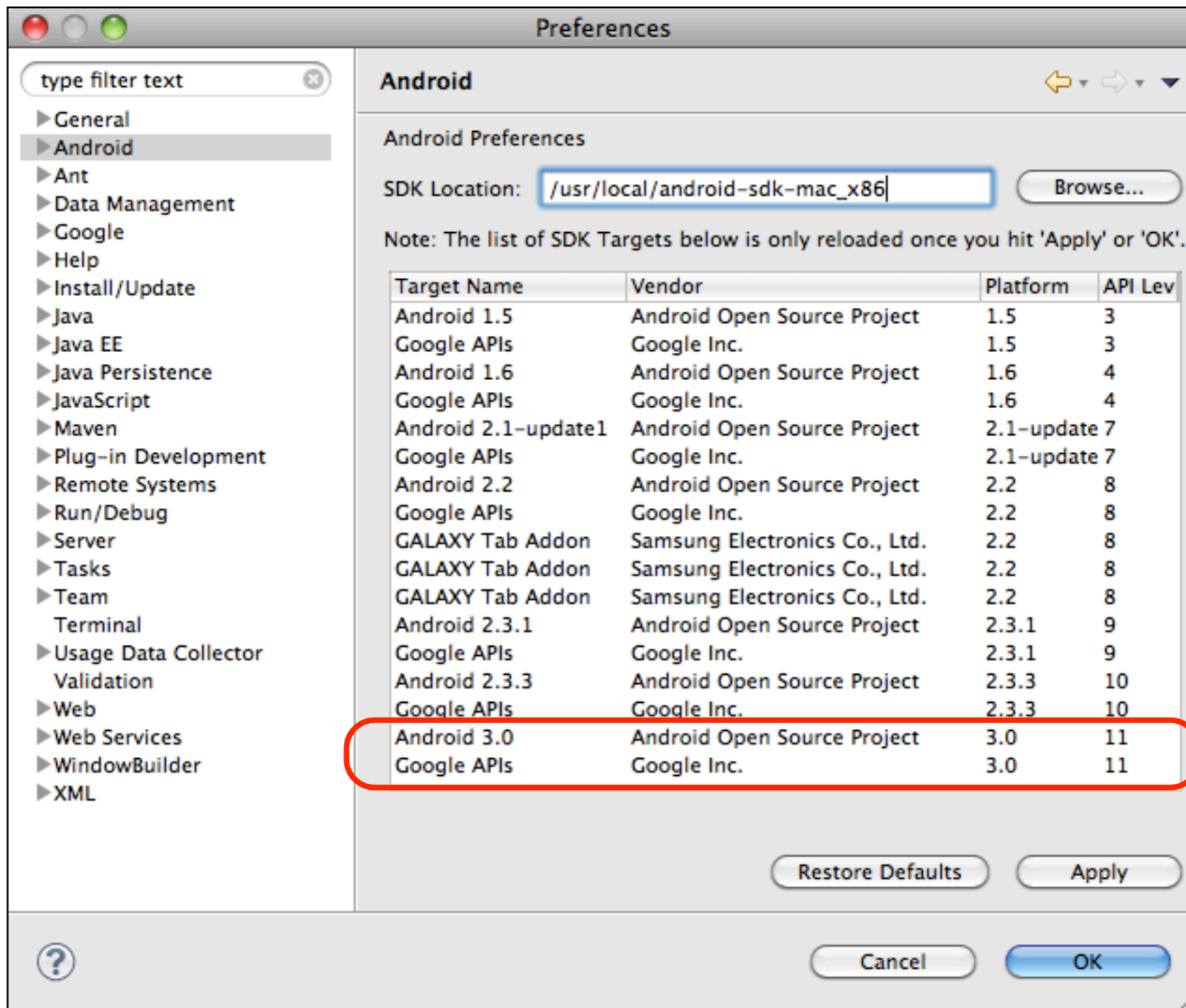
4 items selected

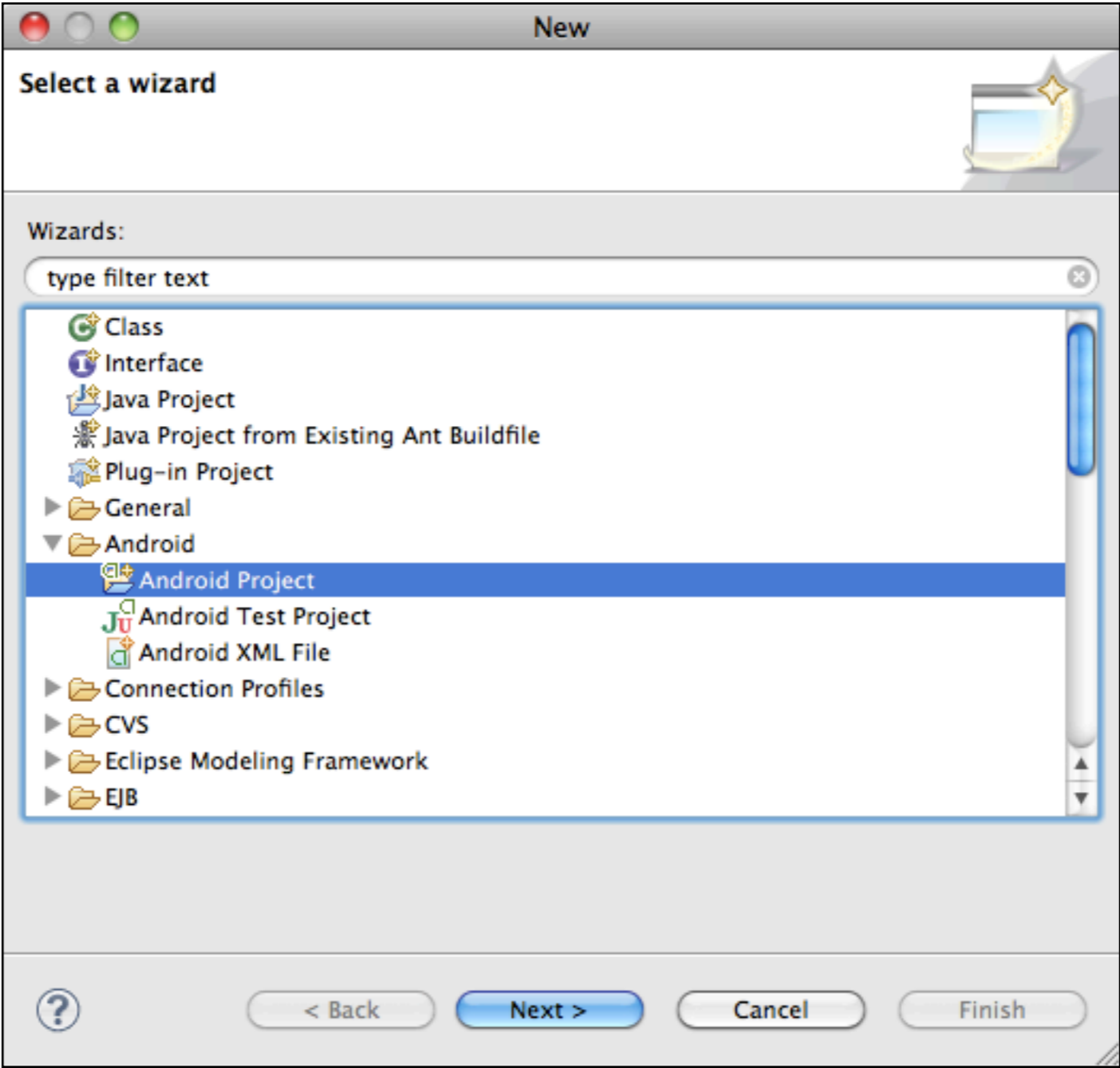
Details

Show only the latest versions of available software Hide items that are already installed
What is [already installed?](#)

Group items by category

Contact all update sites during install to find required software





New Android Project

Creates a new Android Project resource.

Use default location

Location:

Create project from existing sample

Samples:

Build Target

Target Name	Vendor	Platform	API L
<input type="checkbox"/> Android 1.5	Android Open Source Project	1.5	3
<input type="checkbox"/> Google APIs	Google Inc.	1.5	3
<input type="checkbox"/> Android 1.6	Android Open Source Project	1.6	4
<input type="checkbox"/> Google APIs	Google Inc.	1.6	4
<input type="checkbox"/> Android 2.1-update1	Android Open Source Project	2.1-update1	7
<input type="checkbox"/> Google APIs	Google Inc.	2.1-update1	7
<input type="checkbox"/> Android 2.2	Android Open Source Project	2.2	8
<input type="checkbox"/> Google APIs	Google Inc.	2.2	8
<input type="checkbox"/> GALAXY Tab Addon	Samsung Electronics Co., Ltd.	2.2	8
<input type="checkbox"/> GALAXY Tab Addon	Samsung Electronics Co., Ltd.	2.2	8
<input type="checkbox"/> GALAXY Tab Addon	Samsung Electronics Co., Ltd.	2.2	8
<input type="checkbox"/> Android 2.3.1	Android Open Source Project	2.3.1	9
<input type="checkbox"/> Google APIs	Google Inc.	2.3.1	9
<input type="checkbox"/> Android 2.3.3	Android Open Source Project	2.3.3	10
<input type="checkbox"/> Google APIs	Google Inc.	2.3.3	10
<input checked="" type="checkbox"/> Android 3.0	Android Open Source Project	3.0	11
<input type="checkbox"/> Google APIs	Google Inc.	3.0	11

Standard Android platform 3.0

Properties

Application name:


Package name:

Create Activity:

Min SDK Version:

Debug Configurations

Create, manage, and run configurations

Android Application 

type filter text

- Android Application
 - myapp
 - Android JUnit Test
 - Apache Tomcat
 - Compile GWT Application
 - Eclipse Application
 - Eclipse Data Tools
 - Generic Server
 - Generic Server(External)
 - GWT Application
 - GWT JUnit Test
 - GWT JUnit Test
 - HTTP Preview
 - J2EE Preview
 - Java Applet
 - Java Application
 - JavaScript
 - JUnit
 - JUnit Plug-in Test
 - Maven Build
 - OSGi Framework
 - Remote Java Application
 - Task Context Test

Name: myapp

Android Target Common

Project: myapp [Browse...](#)

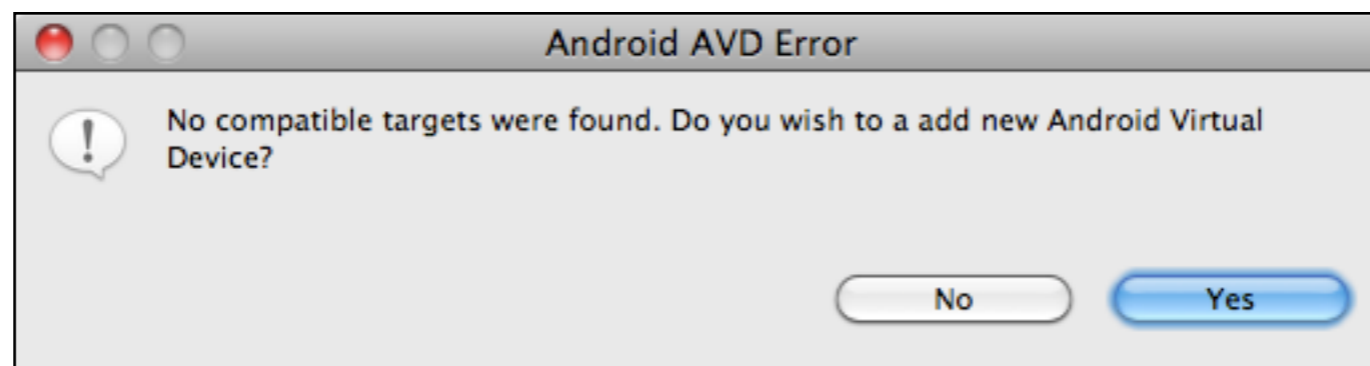
Launch Action:

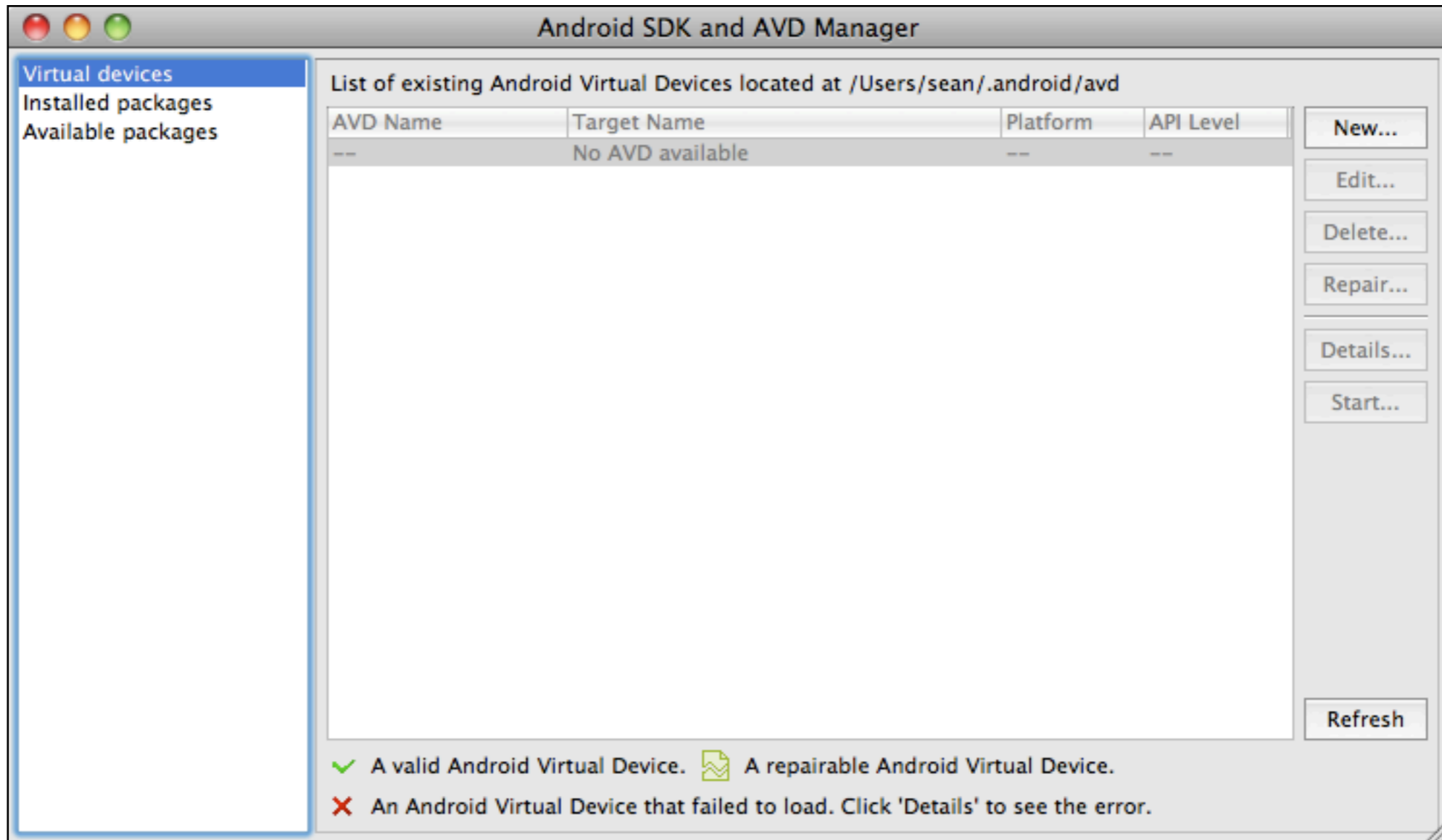
- Launch Default Activity
- Launch:
- Do Nothing

[Apply](#) [Revert](#)

[Close](#) [Debug](#)

Filter matched 25 of 25 items





Create new Android Virtual Device (AVD)

Name:

Target:

SD Card:

Size:

File:

Snapshot:

Enabled

Skin:

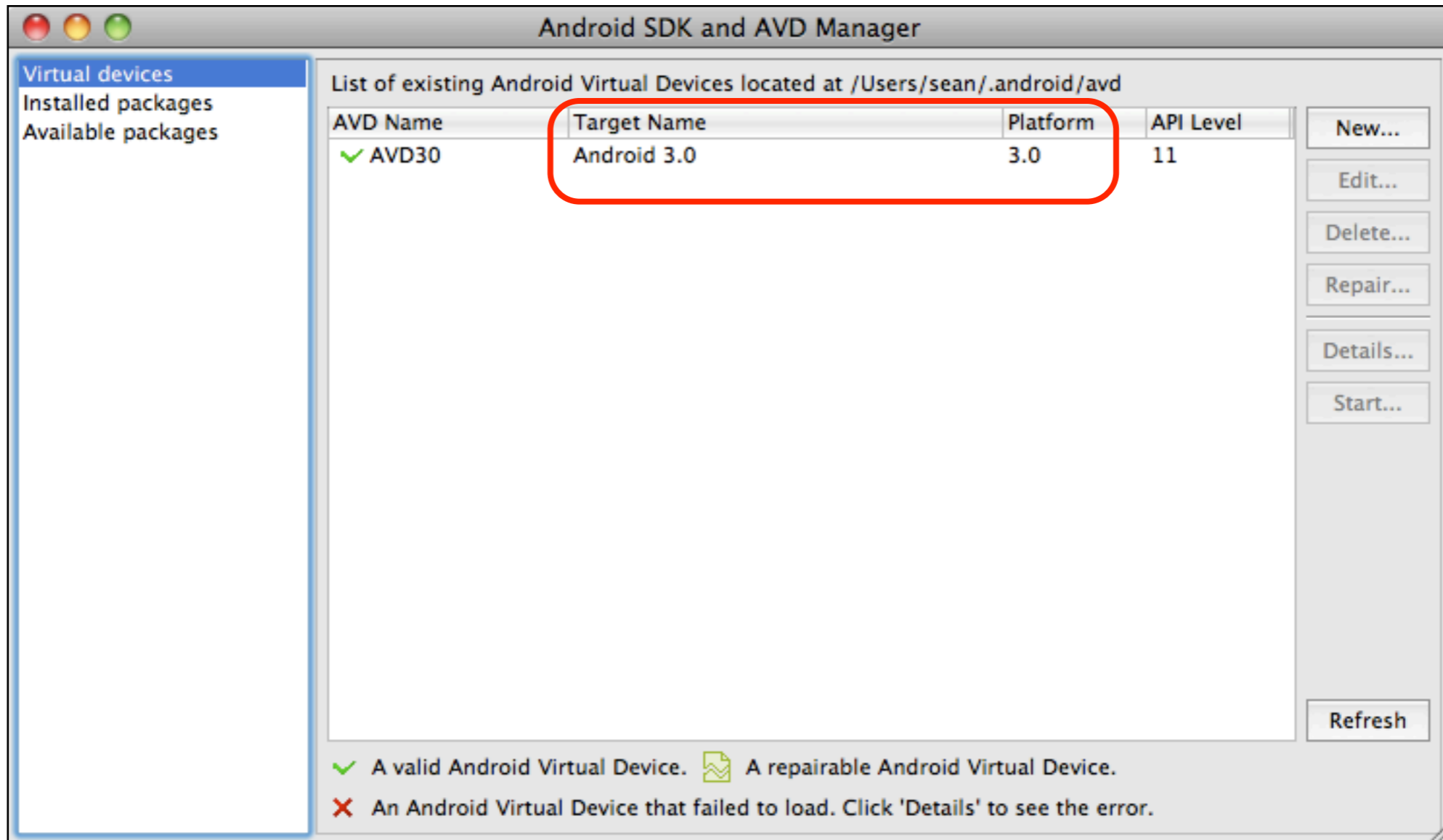
Built-in:

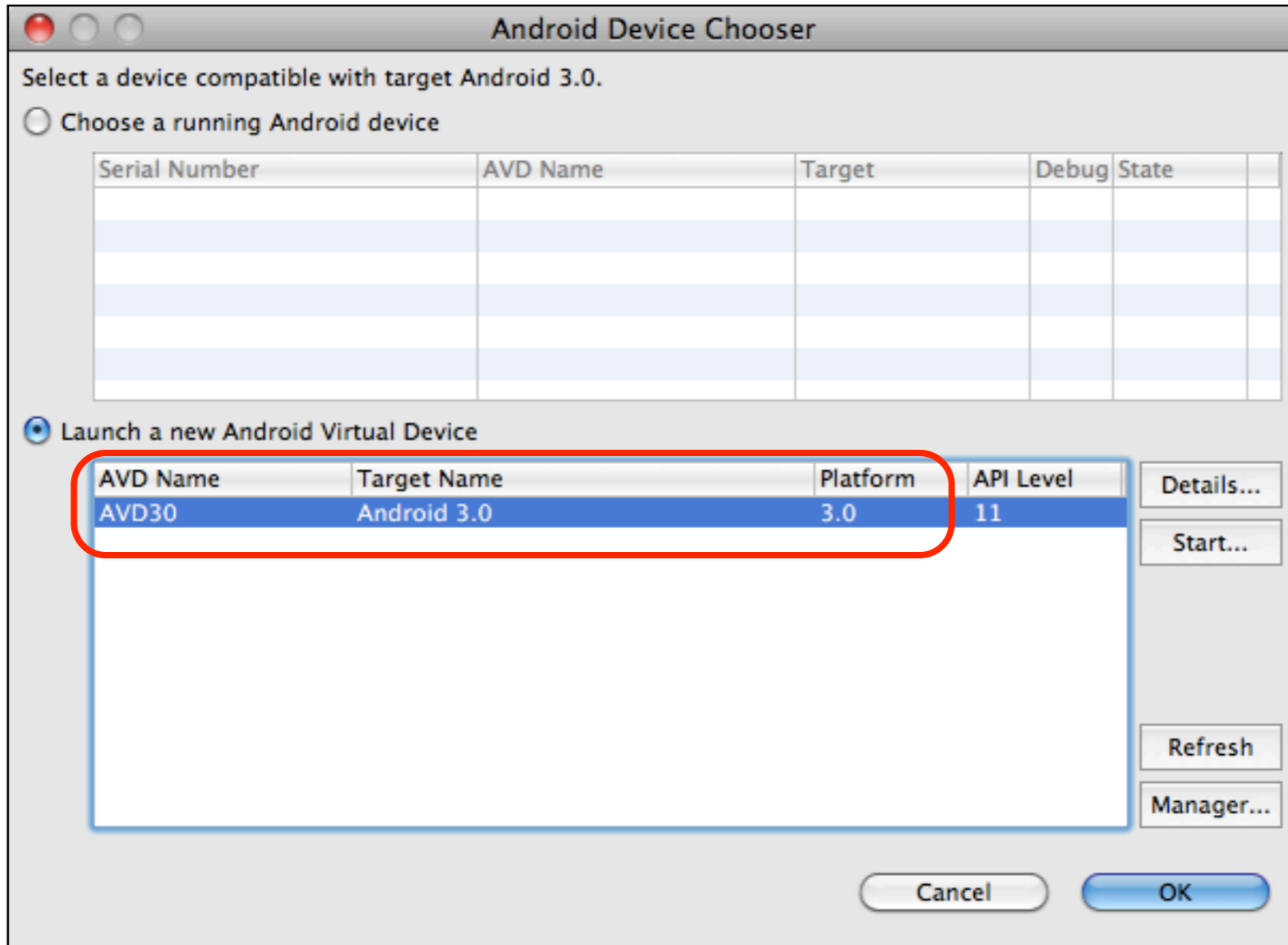
Resolution: x

Hardware:

Property	Value	
Abstracted LCD density	160	
Keyboard lid support	no	
Max VM application heap si	48	
Device ram size	256	

Override the existing AVD with the same name





Sample code

Home

SDK

Dev Guide

Reference

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Videos

Blog

Technical Resources

Sample Code

- Getting the Samples
- Accelerometer Play *new!*
- Accessibility Service *new!*
- API Demos
- Backup and Restore
- Bluetooth Chat
- BusinessCard
- Contact Manager
- Cube Live Wallpaper
- Home
- Honeycomb Gallery *new!*
- JetBoy
- Lunar Lander
- Multiple Resolutions
- NFC Demo
- Note Pad
- Renderscript *new!*
- SampleSyncAdapter
- Searchable Dictionary v2

 **Home**
Sample

A home screen replacement application.

 **Honeycomb Gallery** *new!*
Sample for **New Features** and **User Interface**

An image gallery application using APIs that are new in Android 3.0 (a.k.a. Honeycomb).

 **JetBoy**
Sample for **Game Development** and **Multimedia**

A game that demonstrates the SONiVOX JET interactive music technology, with [JetPlayer](#).

 **Lunar Lander**
Sample for **Game Development** and **Multimedia**

A classic Lunar Lander game.

HoneycombGallery - Honeycomb Gallery | Android Developers

http://developer.android.com/resources/samples/HoneycombGallery/index.html

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Accessibility Service **new!**
API Demos
Backup and Restore
Bluetooth Chat
BusinessCard
Contact Manager
Cube Live Wallpaper
Home
Honeycomb Gallery **new!**
JetBoy
Lunar Lander
Multiple Resolutions
NFC Demo
Note Pad
RenderScript **new!**

HoneycombGallery - Honeycomb Gallery

[← Back](#)

This is a demo application highlighting how to use some of the new APIs in Honeycomb, including:

- [Fragments](#)
- The [action bar](#) and contextual action bar
- Drag and drop
- The new [android.animation](#) framework
- Custom notifications

One error in opening the page. For more information, choose Window > Activity.

API differences



@AndroidDev

AndroidDev

The Honeycomb diffs:

http://developer.android.com/sdk/api_diff/11/changes.html

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API Differences between 10 and 11

http://developer.android.com/sdk/api_diff/11/changes.html

API Differences between 10 and 11

Select a Diffs Index:

- All Differences
- By Package
- By Class
- By Constructor
- By Method
- By Field

Filter the Index:

- All Differences
- Removals
- Additions
- Changes

Listed as: [Added](#), [Removed](#), [Changed](#)

A B C D E F G H I J K L M N O P Q R
S T U V W TOP

[abortUpdates \(\)](#)

[AbsListView](#)

[AbsListView.MultiChoiceModeListene](#)

[AbsListView.SelectionBoundsAdjuste](#)

[AbstractCursor](#)

android developers

Android Developers | Android

API Diff Specification

To Level: 11

From Level: 10

Generated: 2011.02.19

Sta

Android API Differences Report

This report details the changes in the core Android framework API between two [API Level](#) specifications. It shows additions, modifications, and removals for packages, classes, methods, and fields. The report also includes general statistics that characterize the extent and type of the differences.

This report is based a comparison of the Android API specifications whose API Level identifiers are given in the upper-right corner of this page. It compares a newer "to" API to an older "from" API, noting all changes relative to the older API. So, for example, API elements marked as removed are no longer present in the "to" API specification.

To navigate the report, use the "Select a Diffs Index" and "Filter the Index" controls on the left. The report uses text formatting to indicate *interface names*, [links to reference documentation](#), and [links to change description](#). The statistics are accessible from the "Statistics" link in the upper-right corner.

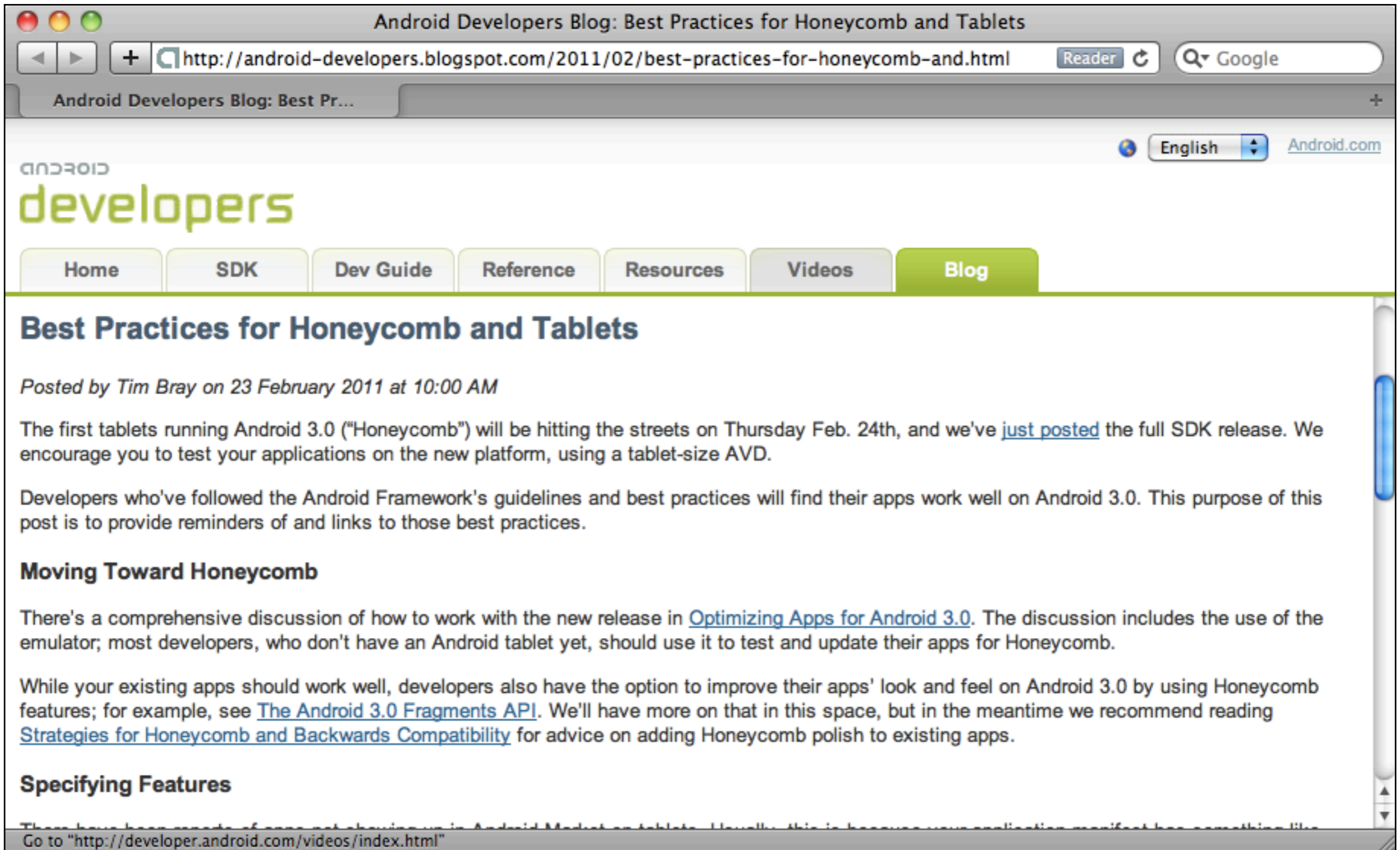
For more information about the Android framework API and SDK, see the [Android Developers site](#).

Added Packages

android.animation

http://developer.android.com/sdk/api_diff/11/changes.html

Best practices



http://android-developers.blogspot.com/2011/02/best-practices-for-honeycomb-and.html

Application Licensing

- ▶ In-app Billing ^{new!}
- Market Filters

Developing

- Introduction
- ▶ Managing Virtual Devices
- Using Hardware Devices
- ▶ Managing Projects
- ▶ Building and Running
- ▶ Debugging
- ▶ Testing
- ▶ Tools

Publishing

- Signing Your Applications
- Versioning Your Applications
- Preparing to Publish
- Publishing Your Applications

Best Practices

- Compatibility
- Supporting Multiple Screens

Optimizing Apps for Android 3.0

If you're developing an Android application, Android 3.0 introduces several features that allow you to enhance your user's experience on tablets and similar devices. Any application you've already published is compatible with devices running Android 3.0, by default, because Android applications are forward-compatible. However, there are some simple changes you should make to optimize your application for tablet-type devices.

This document shows how you can optimize your existing application for Android 3.0 and maintain compatibility with older versions or upgrade your application completely with new APIs.

To get started:

1. [Set up your SDK with Android 3.0.](#)
2. Then choose to either optimize or upgrade:
 - a. [Optimize Your App for Tablets and Similar Devices.](#)

In this document[Set Up Your SDK with Android 3.0](#)[Optimize Your App for Tablets and Similar Devices](#)[Upgrade or Develop a New App for Tablets and Similar Devices](#)



Motorola XOOM™ Tablet Programming Tips

ECCN 5D992.a

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- > [Touch tablet](#)
- > [Resolution and resources](#)
- > [Text and screen size](#)
- > [Expanded camera class](#)
- > [Dual-core processor](#)
- > [What's next?](#)

Welcome to the next evolution in tablets. [Motorola XOOM™](#) is a touch tablet that provides the most enjoyable and immersive mobile video experience today. With a large, 10.1-inch, full touchscreen display, watch videos and movies in brilliant high def 1080p resolution. Its screen size and shape are optimized for 16:9 widescreen format, so movies fill the screen. An HDMI connector allows content to be played back on any HDTV. Users can rotate seamlessly between front and rear cameras. The built in gyroscope and barometer extend the offering of available sensors. At the center of the tablet sits an NVIDIA Tegra 2 dual-core chipset, which sets the stage for a better performing, media-rich device.

In preparation for the tablet, some general programming guidelines are provided here.

Screen

The first obvious feature of Motorola XOOM is the screen size. It measures 10.1 inches diagonally and displays 1280 x 800 physical pixels. This could impact your application in various ways as described throughout this article.



What's next?


Eric Schmidt: Next Version of Android will ...rbread - Droid Life: A Droid Community Blog

http://www.droid-life.com/2011/02/15/eric-schmidt-next-versio RSS Google

Eric Schmidt: Next Version of And...

Eric Schmidt: Next Version Of Android Will "Combine" Honeycomb And Gingerbread

On 02.15.11, In News, by Kellex 21 retweet Share 6



During his keynote speech today at MWC, Eric Schmidt helped clarify what the future version of Android will end up being. There has been a lot of talk on whether or not [Honeycomb](#) would be available to phones or if the version to follow [Gingerbread](#) would simply pull certain parts out of its tablet brother. According to Schmidt, they will essentially be "combined"...

"We have OS called Gingerbread for phones, we have an OS being previewed now for tablets called Honeycomb. You can imagine the follow up will start with an I, be named after dessert, and will combine these two."

Loading "http://www.droid-life.com/2011/02/15/eric-schmidt...omb-and-gingerbread/", completed 146 of 157 items (10 errors)

The Future Version Of Android Isn't Called Ice Cream. It's Ice Cream SANDWICH.

TC <http://techcrunch.com/2011/01/11/android-ice-cream-sandwich/> Reader ice cream

The Future Version Of Android Is...

TechCrunch

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The Future Version Of Android Isn't Called Ice Cream. It's Ice Cream SANDWICH.

Jason Kincaid
Jan 11, 2011

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133 Comments



Final thoughts

- Android 3.0 is for tablets, not phones
- XOOM is available now
- Additional Honeycomb tablets coming soon
- Learn the Fragments API

Thank you



sean@seansullivan.com