

ANDROID

nexus /

Office Hours



TOPICS TO MAKE YOU BELIEVE IN ANDROID

INTRODUCTION
TO ANDROID

HISTORY OF
ANDROID

ANDROID
ARCHITECTURE

FEATURES OF
ANDROID

SECURITY
AND PRIVACY

VERSIONS
OF
ANDROID

ANDROID
MARKET

SCOPE OF
ANDROID

FUTURE OF
ANDROID

INTRODUCTION TO ANDROID



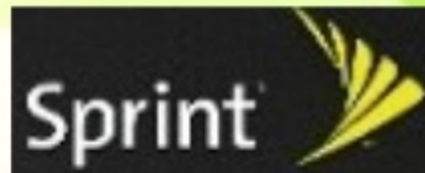
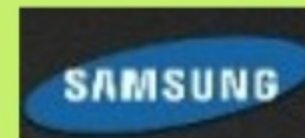
**KNOW THE MOST WANTED
OPERATING SYSTEM**



The Open Handset Alliance (OHA) is a consortium/association of 84 firms to develop open standards for mobile devices.

Member firms include the following:

Android is an operating system designed primarily for touchscreen mobile devices such as smartphones and tablet computers, developed by Google in conjunction with the Open Handset Alliance.



Initially it was developed by Android Inc, whom Google financially backed and later Google purchased the company Android Inc. in 2005.

ANDROID



Google™



HTC DREAM: FIRST ANDROID PHONE

1.ANDROID WAS UNVEILED IN 2007.

2.ANDROID HAS A LARGE COMMUNITY OF DEVELOPERS WRITING APPLICATIONS (APPS) THAT EXTENDED THE FUNCTIONALITY OF DEVICES.

3.THE FIRST ANDROID POWERED PHONE THE WORLDS LEADING SMARTPHONE PLATFORM, OVERTAKING NOKIA SYMBIAN OPERATING SYSTEM WHICH HELD ITS RECORD FOR YEARS.

4.SINCE THEN ANDROID HAS BEEN OVERTAKING MOST OF THE OTHER OPERATING SYSTEMS AND GAINING MORE PROGRESS.



HISTORY OF ANDROID

e v o l u t i o n



**BEGINNING OF THE ECSTATIC
OPERATING SYSTEM**

Android Inc. was founded in Palo Alto, California in October 2003 by Andy Rubin, Rich Miner, Nick Sears and Chris White



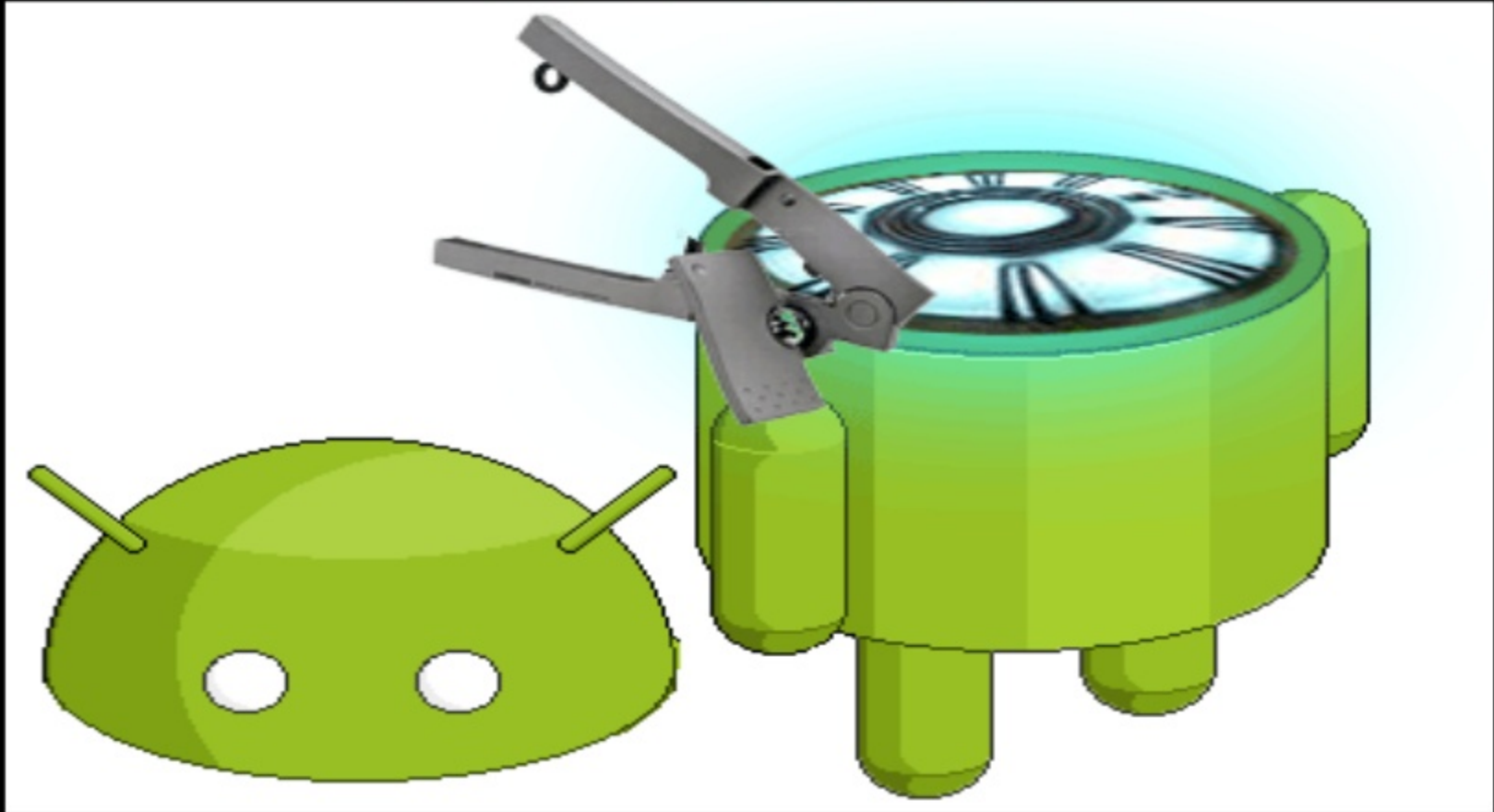
- Speculation about Google's intention to enter the mobile communications market continued to build through December 2006**
- At Google, the team led by Rubin developed a mobile device platform, i.e. Android Operating System.**
- Google marketed the platform to handset makers on the promise of providing a flexible, upgradable system.**

In 2010, Google launched its Nexus series of devices - a line smart phones and tablets running the Android operating system.



The series has since been updated with newer devices, such as the Galaxy Nexus phone and Nexus 7 tablet, made by Samsung and Asus respectively.

ARCHITECTURE OF ANDROID



**DETAILED STRUCTURE KNOWLEDGE OF
ANDROID OPERATING SYSTEM**

SOFTWARE STACK (4 LAYERS)

A green Android robot head is partially visible behind the title text.

APPLICATION LAYER

APPLICATION FRAMEWORK

LIBRARIES AND RUNTIME

THE KERNEL

APPLICATIONS

Home

Contacts

Phone

Browser

...

APPLICATION FRAMEWORK

Activity Manager

Window
Manager

Content
Providers

View
System

Package Manager

Telephony
Manager

Resource
Manager

Location
Manager

Notification
Manager

LIBRARIES

Surface Manager

Media
Framework

SQLite

OpenGL | ES

FreeType

WebKit

SGL

SSL

libc

ANDROID RUNTIME

Core Libraries

Dalvik Virtual
Machine

LINUX KERNEL

Display
Driver

Camera Driver

Flash Memory
Driver

Binder (IPC)
Driver

Keypad Driver

WiFi Driver

Audio
Drivers

Power
Management

THE KERNEL IN DETAIL

LINUX KERNEL

Display
Driver

Camera Driver

Flash Memory
Driver

Binder (IPC)
Driver

Keypad Driver

WiFi Driver

Audio
Drivers

Power
Management

DETAILS OF LIBRARIES AND RUNTIME



LIBRARIES

Surface Manager

Media
Framework

SQLite

OpenGL | ES

FreeType

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SSL

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ANDROID RUNTIME

Core Libraries

Dalvik Virtual
Machine

MORE KNOWLEDGE ABOUT APPLICATION FRAMEWORK & APPLICATIONS



APPLICATIONS

Home

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...

APPLICATION FRAMEWORK

Activity Manager

Window
Manager

Content
Providers

View
System

Package Manager

Telephony
Manager

Resource
Manager

Location
Manager

Notification
Manager

Interface

Android's user interface is based on direct manipulation, using touch inputs that correspond to real-world actions, like swiping, tapping, pinching to manipulate on-screen objects.

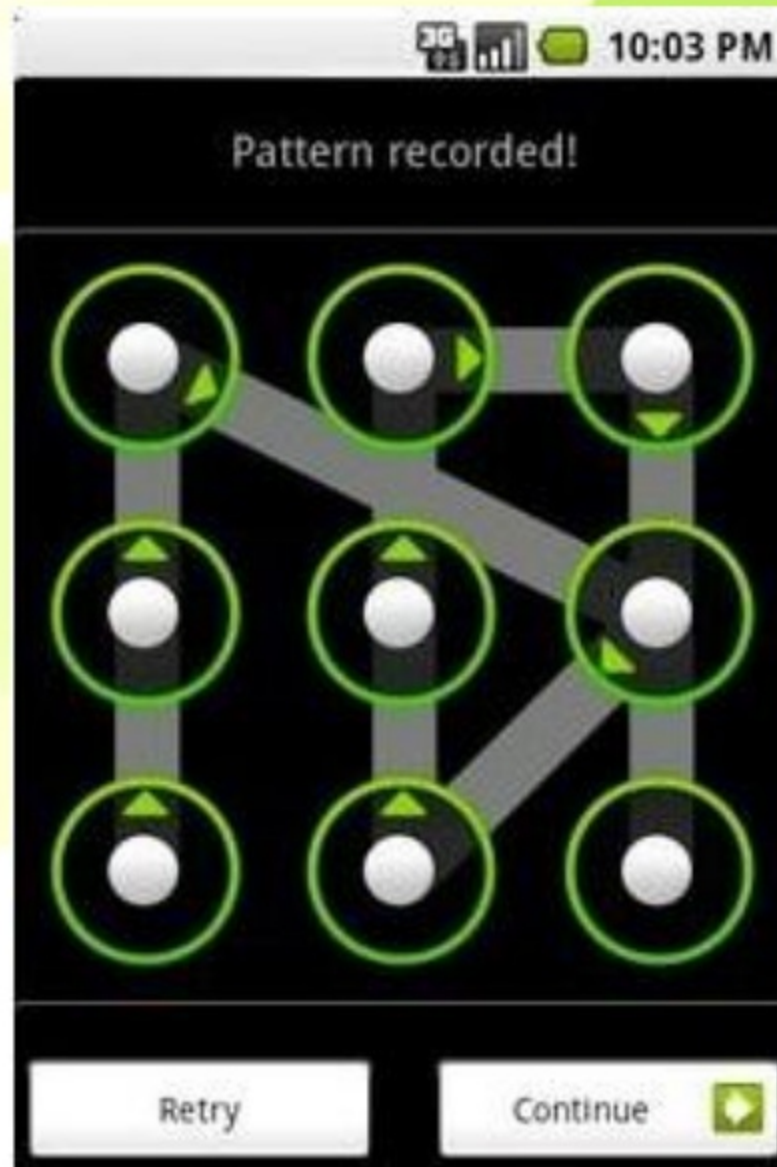


FEATURES ***(ANDROID OVER***



**10 REASONS WHICH MAKES ANDROID
SPECIAL THAN IOS**

PATTERN UNLOCK



MULTI - TASKING AND BOOTING



ANDROID MARKET



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★★★★★
(99 ratings)

INSTALL

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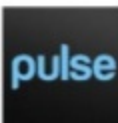


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OVERVIEW

USER REVIEWS (12)

WHAT'S NEW

PERMISSIONS

DESCRIPTION

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ABOUT THIS APP

RATING:
★★★★★
(99)

UPDATED:
December 2, 2010

CURRENT VERSION:
1.2

REQUIRES ANDROID:
1.6 and up

CATEGORY:
News & Magazines

INSTALLS:
5,000 - 10,000

SIZE:
863k

PRICE:
Free

