BASIC ANDROID -

ANDROID INTRODUCTION

Nguyen Tran

Nguyen.TranLeHoang@vn.bosch.com



Hello friend, I'm your Android supporter.





- What is Android?
- What is OHA?
- Features of Android
- History of Android
- Application field
- Market share
- Android versions, codename and API level
- Categories of Android applications



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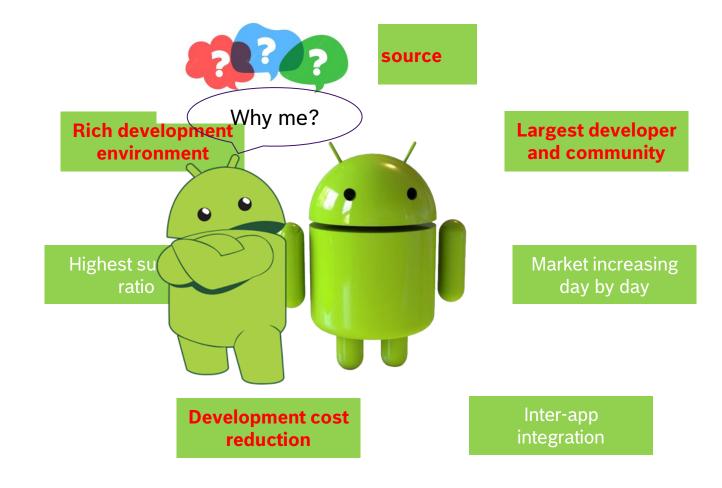




- Android is a software package and linux based operating system for devices such as tablets, smartphones, TV, watch, etc.
- It is developed by Google and later the **OHA** (**O**pen **H**andset **A**lliance). Java language is mainly used to write the android code even though other languages can be used such as Kotlin, ...
- The goal of android project is to create a successful real-world product that improves the experience for end users.









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What is OHA?

- An organization including phone makers (such as HTC, SamSung, Motorola, etc.), chip manufacturers (such as Qualcomm, Texas Instruments, etc.), and carriers (such as T-Mobile, etc.).
- It was established on 5th November 2007, led by Google.
- It is committed to advance open standards, provide services and deploy handsets using the Android Platform.

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Features of Android





Features of Android

- Android is a powerful operating system competing with Apple and supports great features:
 - Anyone can customize the Android Platform
 - Supports different types of connectivity for GSM, CDMA, Wi-Fi, Bluetooth, etc. for telephonic conversation or data transfer.
 - Can pair with other devices while playing games or using other applications.
 - Contains multiple APIs to support location-tracking services such as GPS.
 - · Can manage all data storage-related activities by using the file manager.
 - Contains a wide range of media supports like AVI, MKV, FLV, MPEG4, etc. to play or record a variety of audio/video.



Features of Android

- Android is a powerful operating system competing with Apple and supports great features:
 - Supports different image formats like JPEG, PNG, GIF, BMP, etc.
 - Supports multimedia hardware control to perform playback or recording using a camera and microphone.
 - Has an integrated open-source WebKit layout-based web browser to support User Interfaces like HTML5, and CSS3.
 - Provides support for virtual reality or 2D/3D Graphics.



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History of Android

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





History of Android

- The purpose of Android Inc is to develop "smarter mobile devices that are more aware of its owner's location and preferences."
- In 2005, Google acquired Android Inc, marking the next big chapter in Android's history.
- Then, Linux was decided to use as the basis for the Android OS.
- This will make Android itself to be able to offer to third-party mobile phone manufacturers for free.

History of Android

- In 2007, Apple launched the first iPhone and ushered in a new era in mobile computing while Google was still secretly working on Android.
- On Nov 05, 2007, Google revealed the plans to combat Apple and other mobile platforms by launching the public beta of version 1.0 for developers and establishing Open Handset Alliance (OHA).
- This ushered in a new era for Android, which will rule the world in later time.

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Application field





Application field





























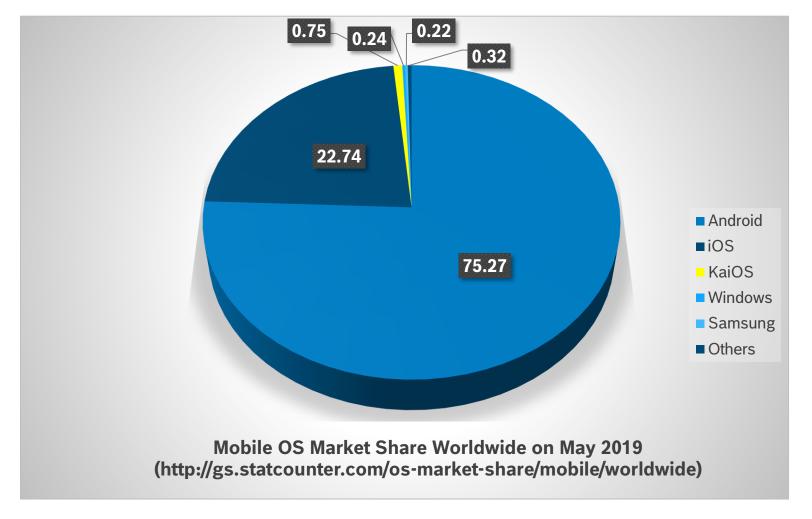




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Market share



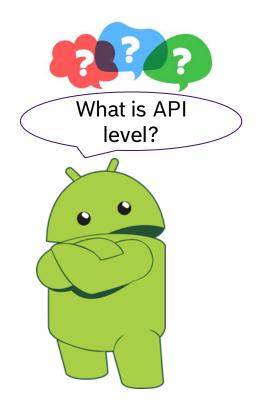


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Android version







• API Level is an integer value that uniquely identifies the framework API revision offered by

a version of the Android platform

Code Name	Code Name Version		Release date
-	Android 1.0	1	September 23, 2008
-	Android 1.1	2	February 9, 2009
Cupcake	Android 1.5	3	April 30, 2009
Donut	Android 1.6	4	September 15, 2009
Eclair	Android 2.0 - 2.1	5-7	October 26, 2009
Froyo	Android 2.2 - 2.2.3	8	May 20, 2010
Gingerbread	Android 2.3 - 2.3.4	9-10	December 6, 2010
Honeycomb	Android 3.0.x - 3.2.x	11 - 13	February 22, 2011

API Level is an integer value that uniquely identifies the framework API revision offered by

a	version	of the	Android	platform
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Ice Cream Sandwich	Android 4.0 - 4.0.4	14 - 15	October 18, 2011
Jelly Bean	Android 4.1 - 4.1.2	16 - 18	July 9, 2012
Kitkat	Android 4.4 - 4.4.4	19	July 9, 2012
Lollipop	Android 5.0 - 5.1	21 - 22	October 17, 2014
Marshmallow	Android 6.0 - 6.0.1	23	October 5, 2015
Nougat	Android 7.0 - 7.1	24 - 25	August 22, 2016

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Oreo	Android 8.0	26	August 21, 2017
Pie	Android 9.0	27	August 6, 2018
Android Q	Android 10.0	29	September 3, 2019
Android 11	Android 11.0	30	September 8, 2020
Snow Cone	Android 12.0 - 12.1	31-32	October 4, 2021
Tiramisu	Android 13		UPCOMING



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Categories of Android applications

• There are many android applications in the market. The top categories are:



Music



News



Multimedia



Sports



Lifestyle



Food & Drink



Travel



Weather



Books



Business



Reference



Navigation



Social Media



Utilities



-inance



Thank for your listening!

