

Introduction to Android

Tushar B. Kute,
<http://tusharkute.com>

Android

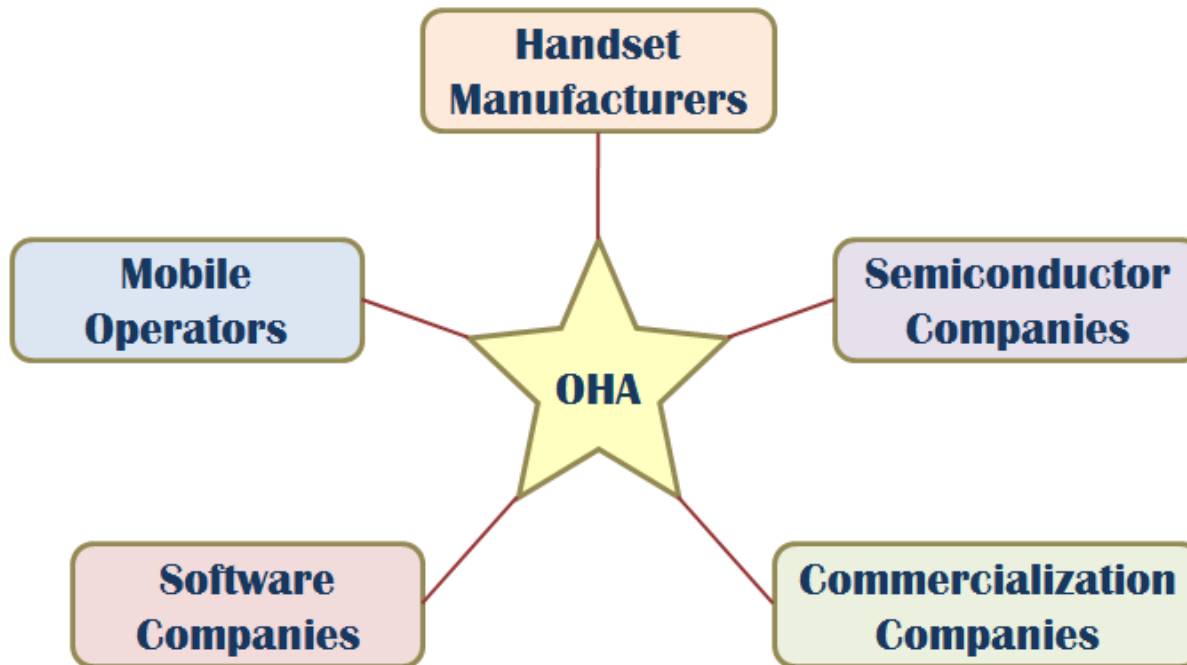
- Android is an open source and Linux-based Operating System for mobile devices such as smartphones and tablet computers.
- Android is a software stack for mobile devices that includes an operating system, middleware and key applications.



History

- The first beta version of the Android Software Development Kit (SDK) was released by Google in 2007 where as the first commercial version, Android 1.0, was released in September 2008.
- The source code for Android is available under free and open source software licenses. Google publishes most of the code under the Apache License version 2.0 and the rest, Linux kernel changes, under the GNU General Public License version 2.

Open Handset Alliance



Phones using Android



HTC G1,
Droid,
Tattoo



Motorola Droid (X)



Sunco S880



Samsung Galaxy



Sony Ericsson

Tablets



Velocity Micro Cruz



Gome FlyTouch



Acer beTouch



Dawa D7

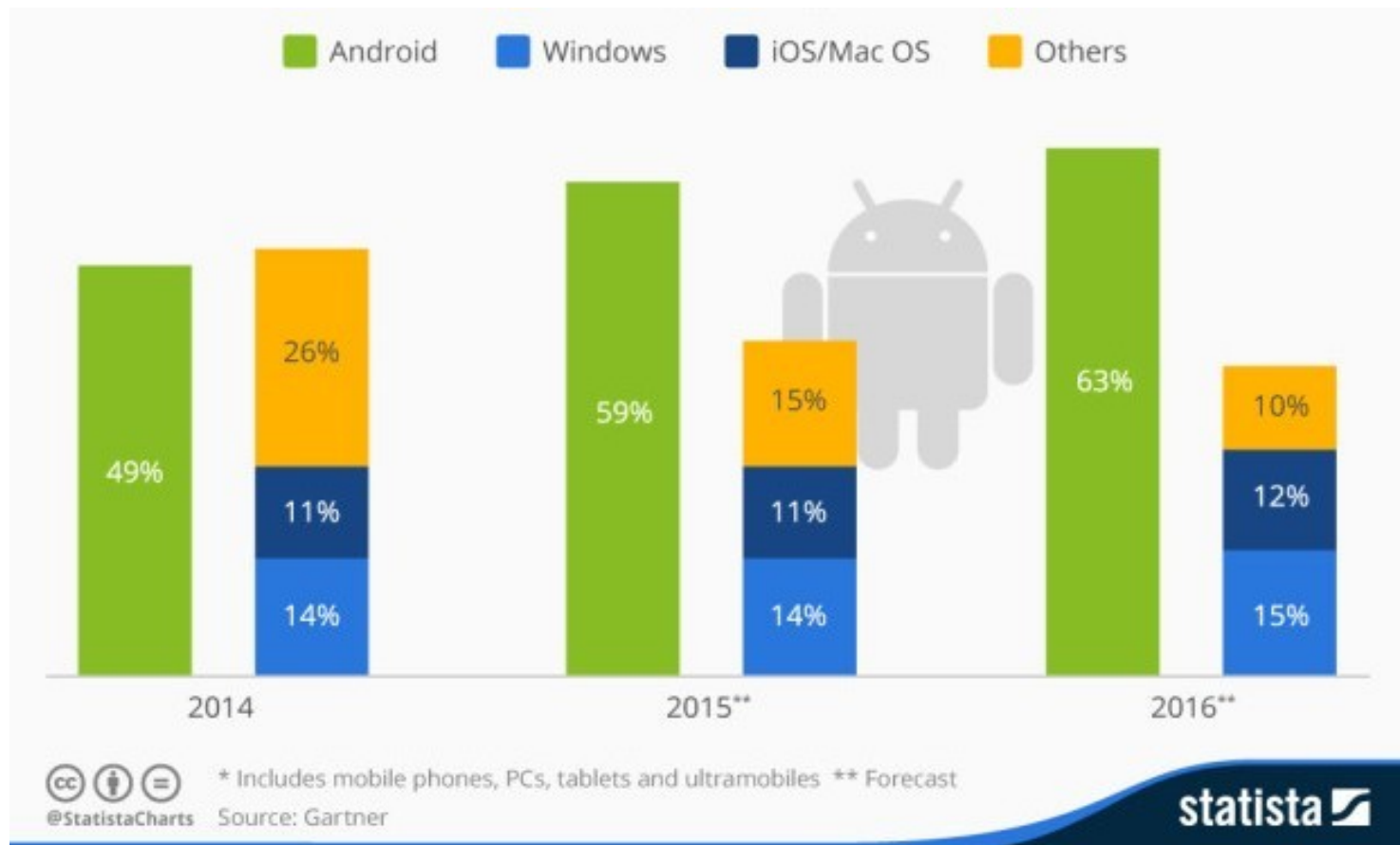


Toshiba Android
SmartBook



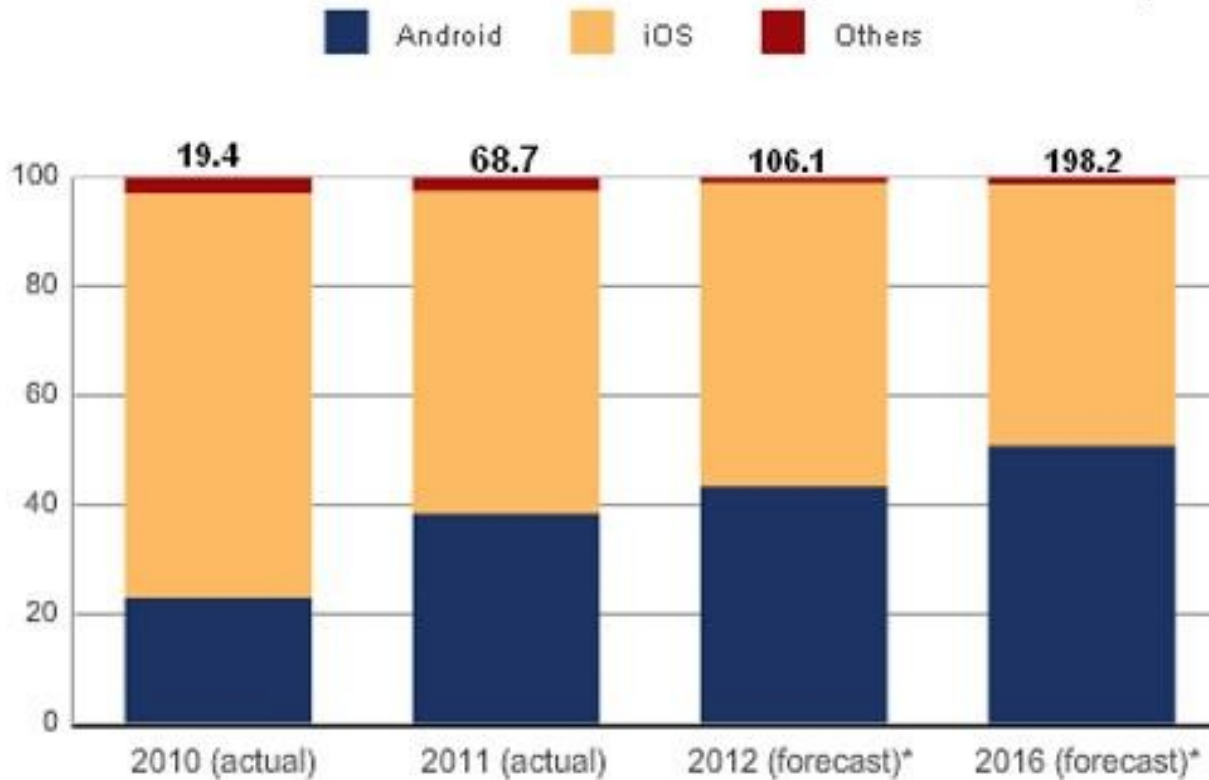
Cisco Android Tablet

Marketshare



Tablets shipment

**Worldwide Media Tablet Shipments Split by OS
Historical and Forecast* 2010 - 2016 (Units in Millions)**



Features of Android

Feature	Description
Beautiful UI	Android OS basic screen provides a beautiful and intuitive user interface.
Connectivity	GSM/EDGE, IDEN, CDMA, EV-DO, UMTS, Bluetooth, Wi-Fi, LTE, NFC and WiMAX.
Storage	SQLite, a lightweight relational database, is used for data storage purposes.
Media support	H.263, H.264, MPEG-4 SP, AMR, AMR-WB, AAC, HE-AAC, AAC 5.1, MP3, MIDI, Ogg Vorbis, WAV, JPEG, PNG, GIF, and BMP
Messaging	SMS and MMS

Features of Android

Web browser	Based on the open-source WebKit layout engine, coupled with Chrome's V8 JavaScript engine supporting HTML5 and CSS3.
Multi-touch	Android has native support for multi-touch which was initially made available in handsets such as the HTC Hero.
Multi-tasking	User can jump from one task to another and same time various application can run simultaneously.
Resizable widgets	Widgets are resizable, so users can expand them to show more content or shrink them to save space
Multi-Language	Supports single direction and bi-directional text.
GCM	Google Cloud Messaging (GCM) is a service that lets developers send short message data to their users on Android devices, without needing a proprietary sync solution.
Wi-Fi Direct	A technology that lets apps discover and pair directly, over a high-bandwidth peer-to-peer connection.
Android Beam	A popular NFC-based technology that lets users instantly share, just by touching two NFC-enabled phones together.

Android Applications

- Android applications are usually developed in the Java language using the Android Software Development Kit.
- Once developed, Android applications can be packaged easily and sold out either through a store such as Google Play or the Amazon Appstore.
- Android powers hundreds of millions of mobile devices in more than 190 countries around the world. It's the largest installed base of any mobile platform and growing fast.
- Every day more than 1 million new Android devices are activated worldwide.

Thank you

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Web Resources

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tushar@tusharkute.com