# ANDROID

# Presentation Outlines:

We will talk in this presentation about:

- Android O.S.
- Android advantages.
- The reasons for success.
- Android competitors .
- How to build Android Application (Program)?

# What Is Android?

- **Android** : is an operating system for mobile devices such as smart phones and tablet computers.
  - It is developed by the Open Handset Alliance led by Google.
  - Google purchased the initial developer of the software, Android Inc., in 2005.
  - The unveiling of the Android distribution in 2007 was announced with the founding of the Open Handset Alliance, a consortium of 84 hardware, software, and telecommunication companies devoted to advancing open standards for mobile devices.

# Who are the Open Handset Alliance??

**Android** has a large community of developers writing applications ("apps") that extend the functionality of the devices.

* Developers write primarily in a customized version of Java.

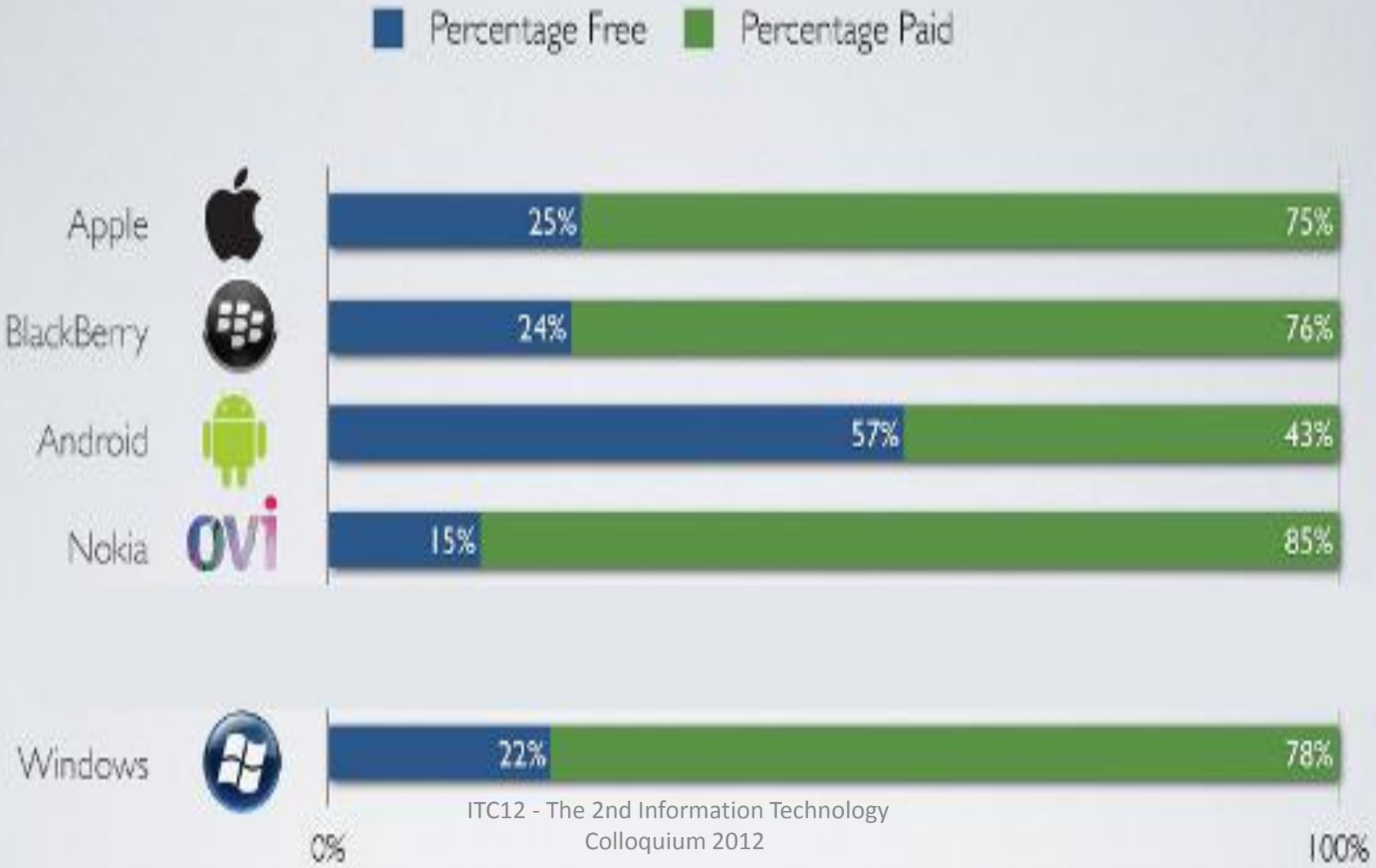
* As of October 2011 there were more than **300,000** apps available for Android, and the estimated number of applications downloaded from the Android Market as of December 2011 exceeded 10 billion. Users downloaded more than **2.4 billion** apps from Android Market in Q3 2011 alone.

This is the highest registration number of the company

* Apps can be downloaded from third-party sites or through online stores such as Android Market, the app store run by Google.

DISTIMO

# FREE VS PAID



- **Android** was listed as the best-selling smart phone platform worldwide in Q4 2010 by Canals with over 200 million Android devices in use by November 2011.

As of December 2011 there are over 700,000 Android devices activated every day.

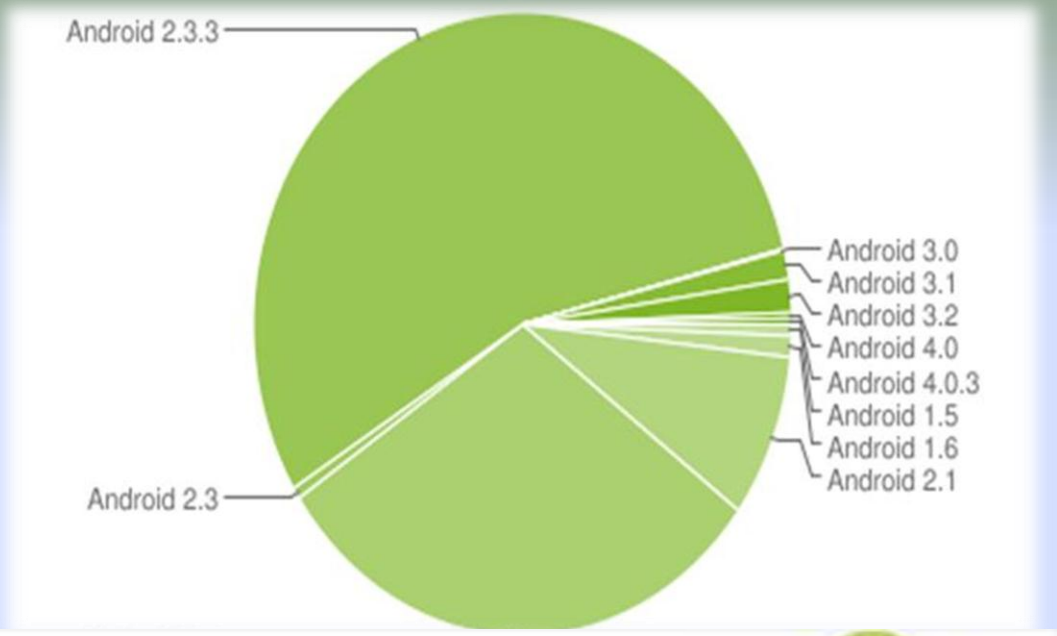
# Android is not only for mobile
# BUT it Supports Game Controller!

# And TV !!!

# And Laptop

# How many versions of the system?

| | |
|---|---|
| 4.0 Ice Cream Sandwich | 0.6% |
| 3.x.x Honeycomb | 3.3% |
| 2.3.x Gingerbread | 55.5% |
| 2.2 Froyo | 30.4% |
| 2.1 Eclair | 8.5% |
| 1.6 Donut | 1.1% |
| 1.5 Cupcake | 0.6% |



Android 1.5
Cupcake

Android 1.6
Donut

Android 2.0 & 2.1
Eclair

Android 2.2
Froyo

Android 2.3.X
Gingerbread

Android 3.X
Honeycomb

Android 4.X
IceCream



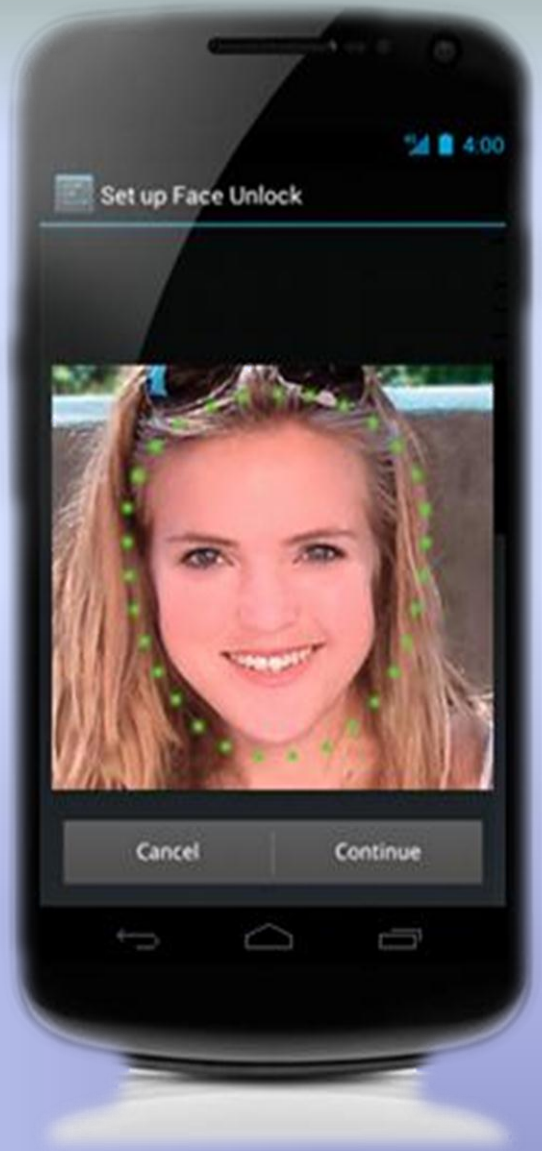
اصدارات نظام الاندرويد إلى الان

# Developments carried out by the Android!

# 1. Face Unlock :

**Android 4.0 introduces a completely**

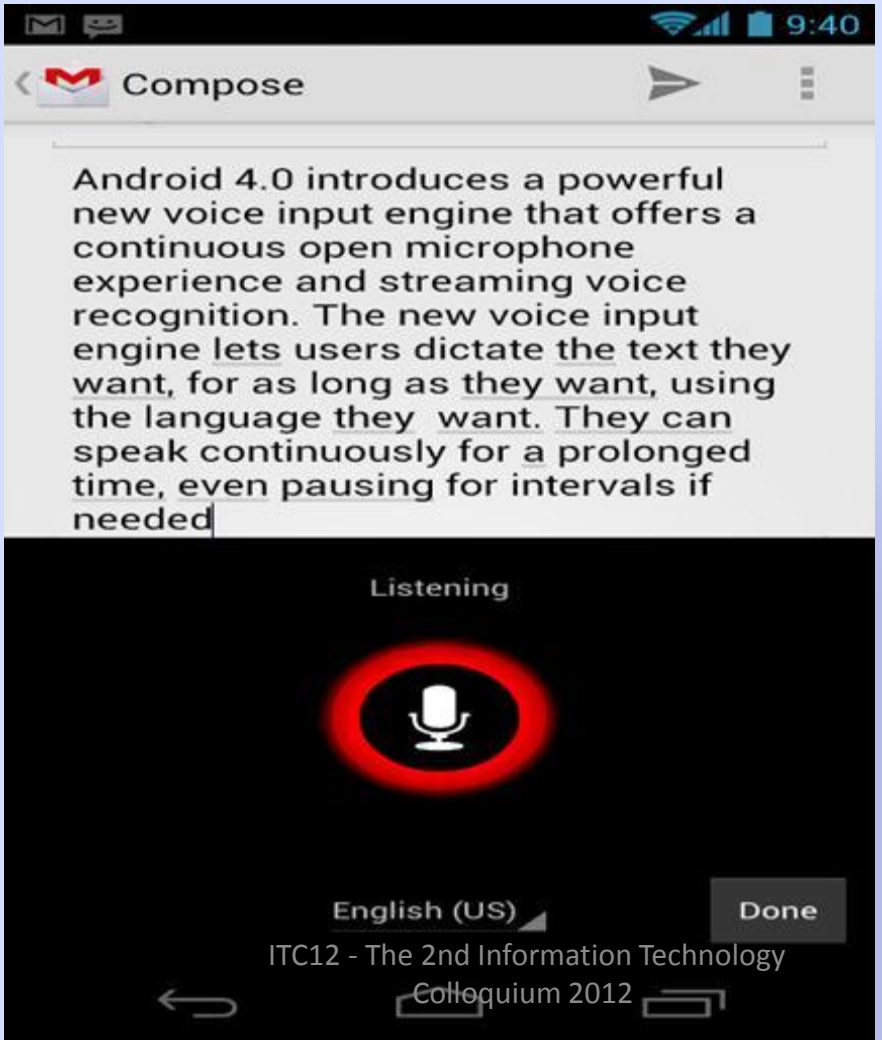
**new approach to securing a device**




**Face Unlock is a new screen-lock option that lets you unlock your device with your face.**

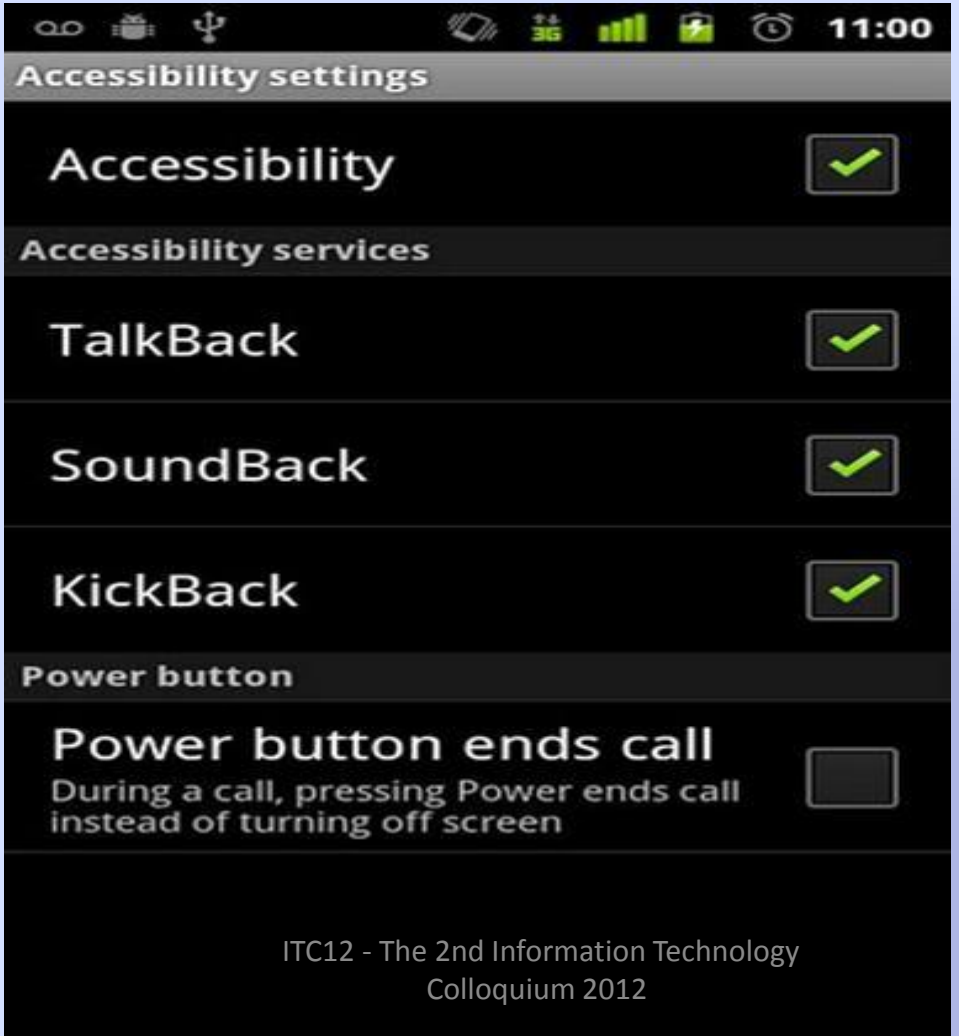
## 2. **Android 4.0 introduces a powerful new voice** :

The new voice input engine lets you dictate the text you want, for as long as you want, using the language you want. You can speak continuously for a prolonged time



# 3. Designed for accessibility

A variety of new features greatly enhance the accessibility of Android 4.0 for blind or visually impaired users.



# Why is Android Special?

- Behind the project company Google.

In addition to a huge collection of the largest manufacturers of mobile phones and mobile telecommunications companies

- Android is based on the Linux kernel

- Android is open source. It gives developers high generosity and flexibility.

- Integration with Google serv

# Android & Competitors

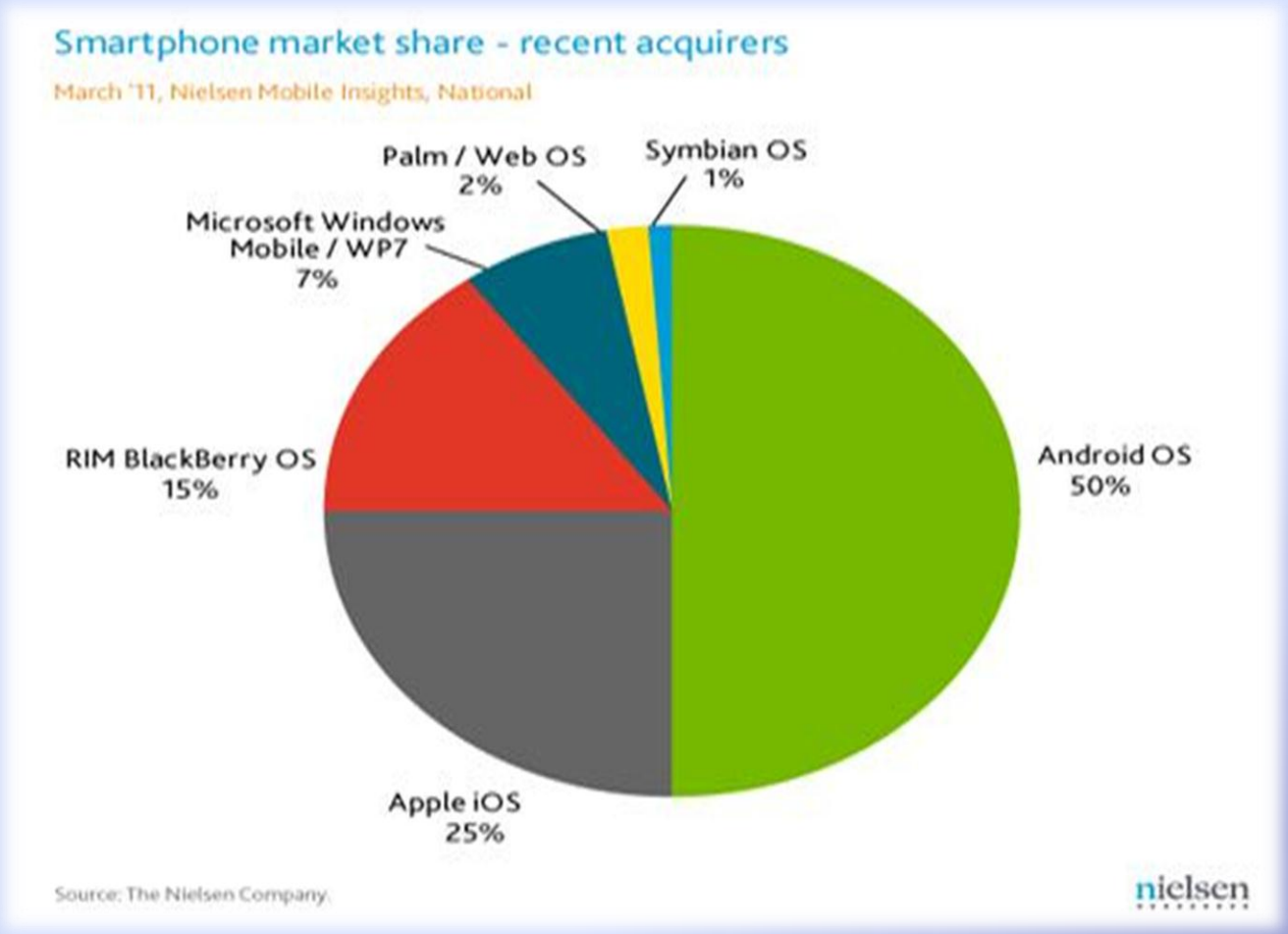
Vs

iOS 4

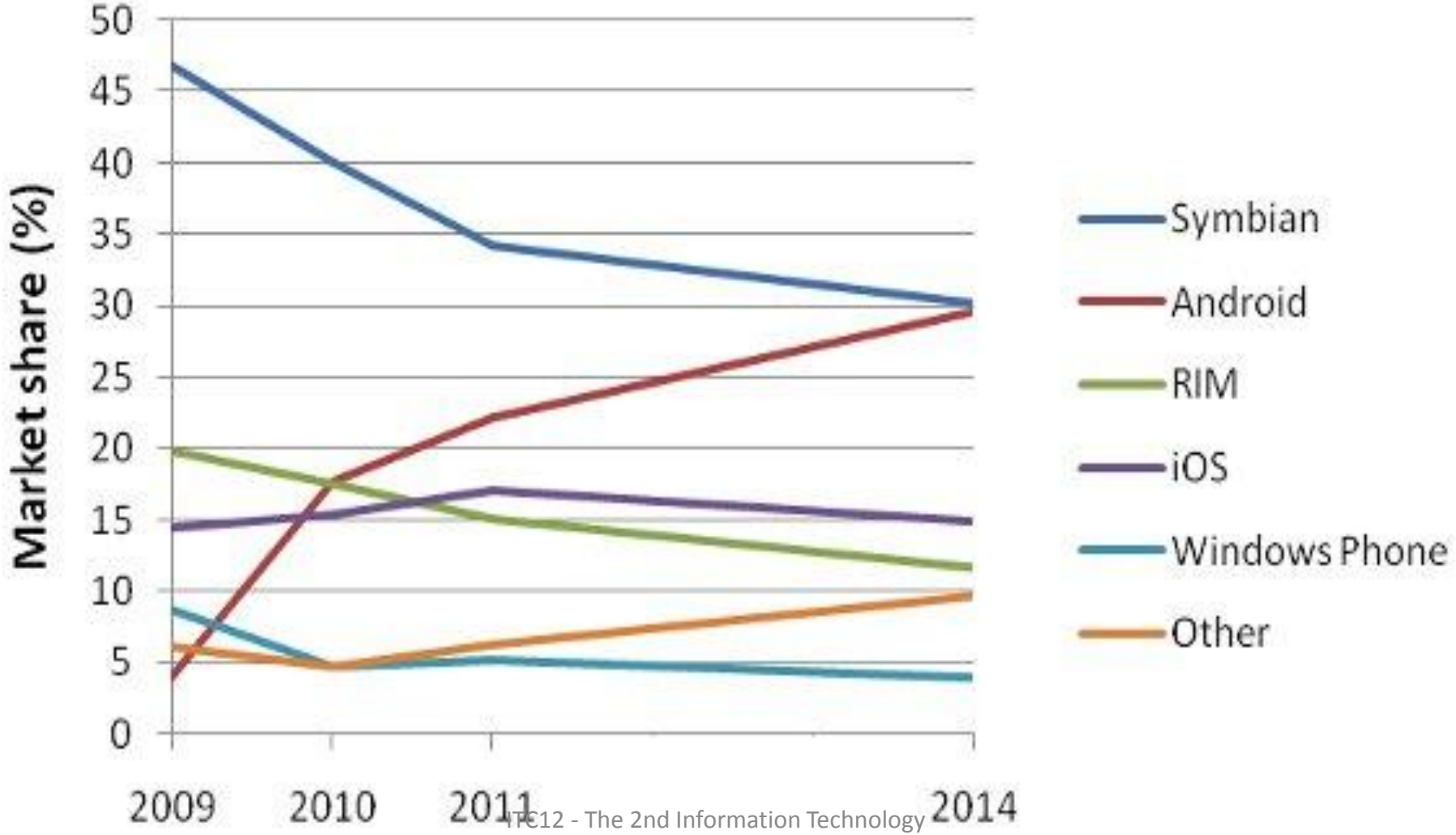
**Android** company faces stiff competition from other operatin systems:

Such as the **Apple** operating system **IOS** , **Nokia's** operating system **Symbian ,** and **Blackberry** operating system **Rim ,** Microsoft Windows Phone 7.5 **'Mango'**

# Android & Competitors!

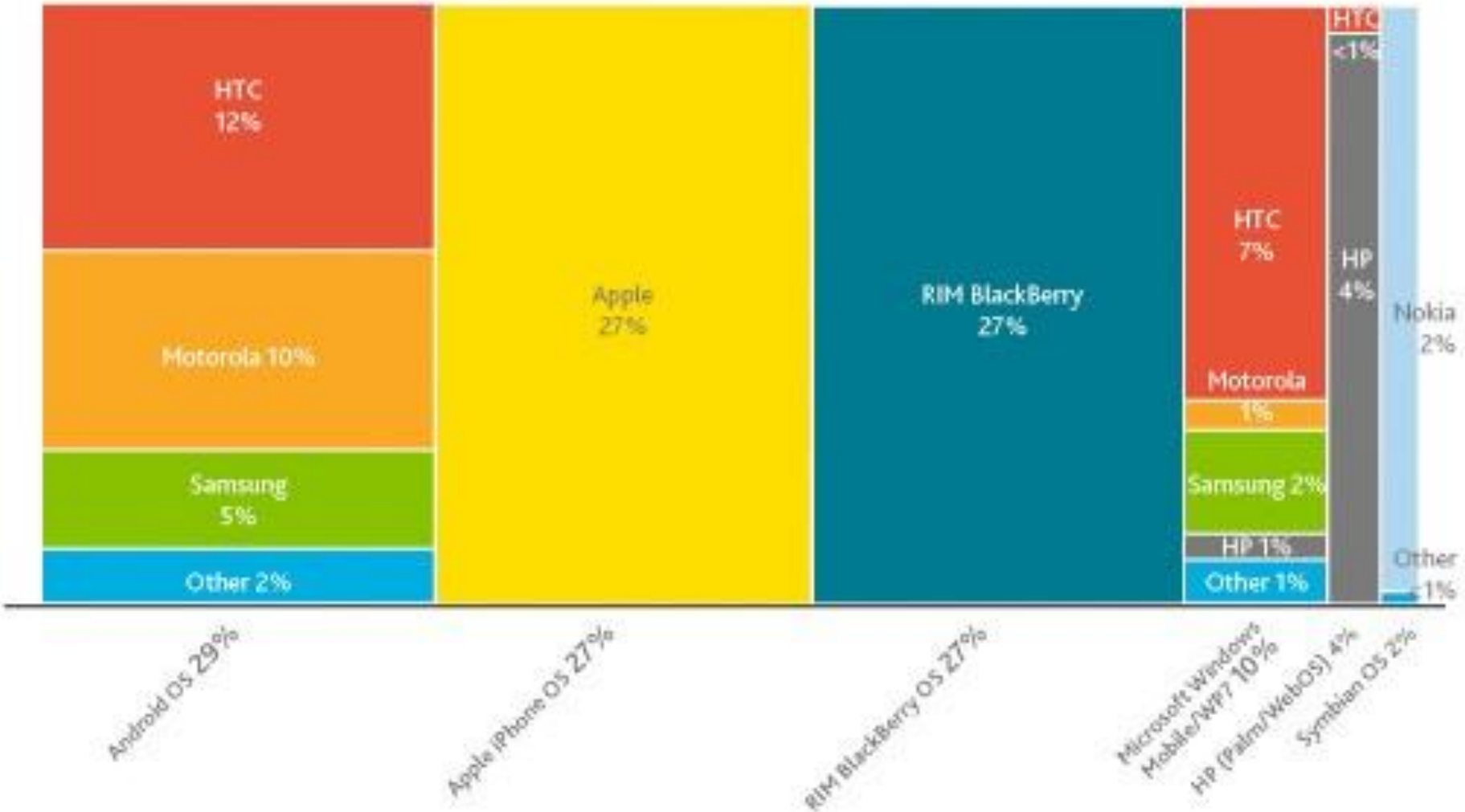


# Mobile Communications Device Open OS Sales to End Users by OS



# Manufacturer operating system share–smartphones

Nov '10 - Jan 11, postpaid mobile subscribers, n=14,701




Source: The Nielsen Company.



nielsen

# How to build programs on Android system?

# You will need
# - Download the Android SDK
# - Download the Eclipse

To see the video  visit the link

goo.gl/XiqQy

# How can I learn about the system and making programs easily?

There are Many books to teach and  a have a better book for the education and it is on  Arabic and so easy Visit the link

goo.gl/ywylr

# The Future Outlook

# References


1. http://www.android.com
2. http://en.wikipedia.org/wiki/Android_%28operating_system%29
3. http://www.android.com/about/ice-cream-sandwich/
4. http://www.android.com/developers/
5. http://www.youtube.com

# The End