Hello Android



"I have always wished that my computer would be as easy to use as my phone.

My wish has come true.

I no longer know how to use my phone"

What is android

- First complete, open and free mobile platform.
- Biggest contributor: Google.
- Software stack includes
 - Operating System
 - Middleware
 - Key applications
 - Rich set of API

What is android

- Based on Linux kernel (2.6)
 - No native windowing system
- Uses java language.
- Implements part / most of J2SE specs.
- Runs on dalvik VM instead of JVM.

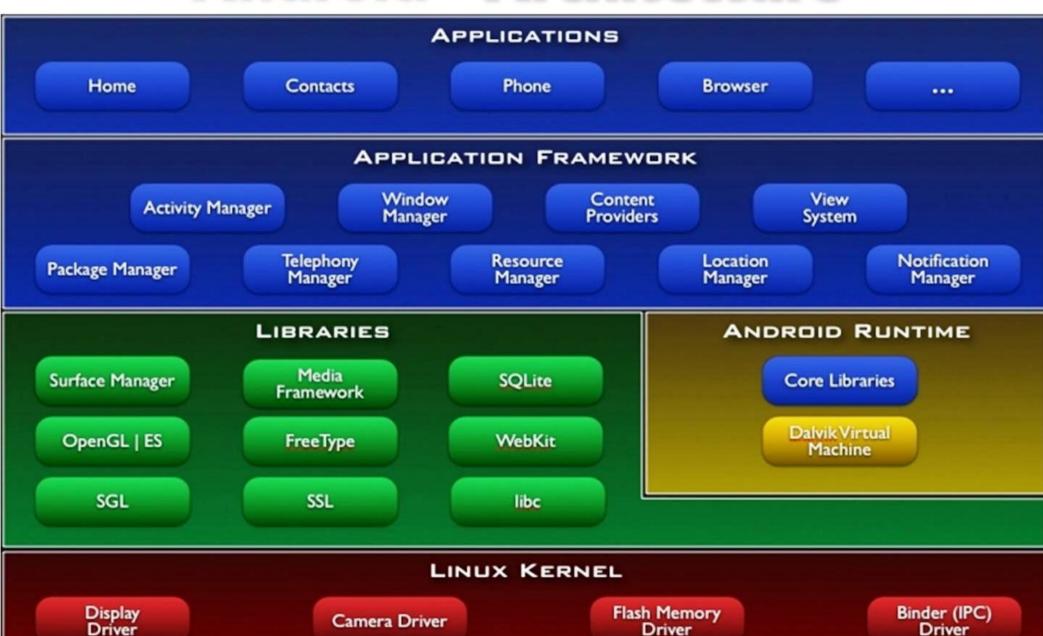
Android Linux kernel

- Security.
- Memory management.
- Process management.
- Network process.
- Abstraction layer.
- Low Memory Killer (no swap)
- Logger.

Unique platform characteristics

- Open source.
 - Anyone can use and change
- All applications are equal model.
- Application framework enables reuse of components.
- Integrated browser based on webkit.
- 3D graphics based on OpenGL ES.
- SQLite for structured data storage.
- Media support for common audio/video.

Android™ Architecture



WiFi Driver

Keypad Driver

Audio

Drivers

Power

Management