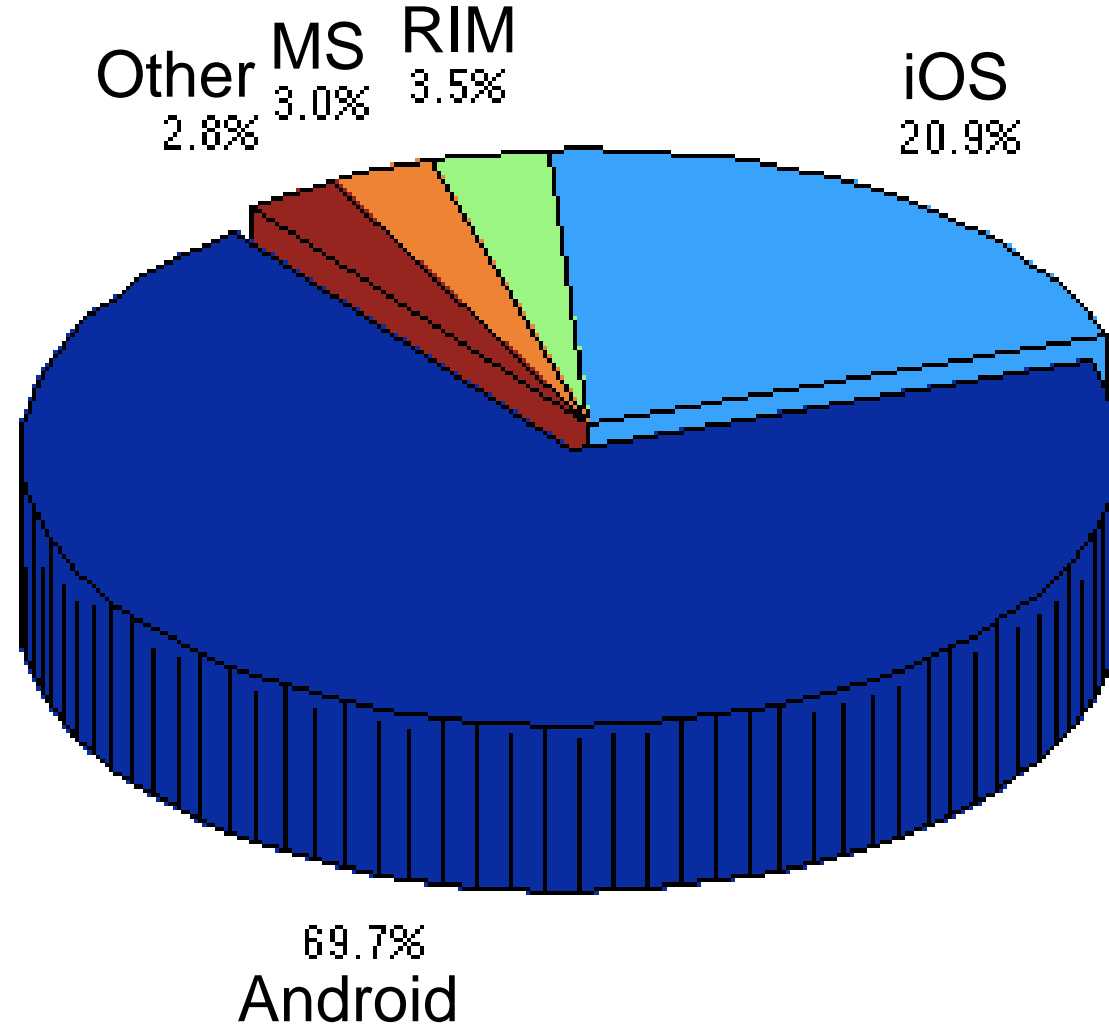


Android platform

- Open source mobile platform developed by Google
- Supported and maintained by Open Handset Alliance
 - 13 mobile operators
 - 22 handset manufacturers
 - 20 semiconductor companies
 - 17 software makers
- Uses an open-source kernel and a virtual machine designed for mobile hardware
- Commands the largest share of the smartphone market in the world
- Google Play contains over 1M apps

Distribution of worldwide smartphone sales in Q4 2012



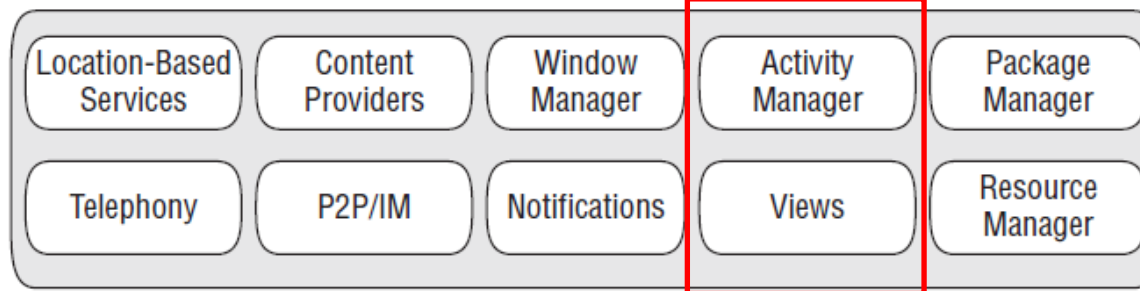
*World Smartphone Sales to End Users
Gartner (Q4 2012)*

Android software stack

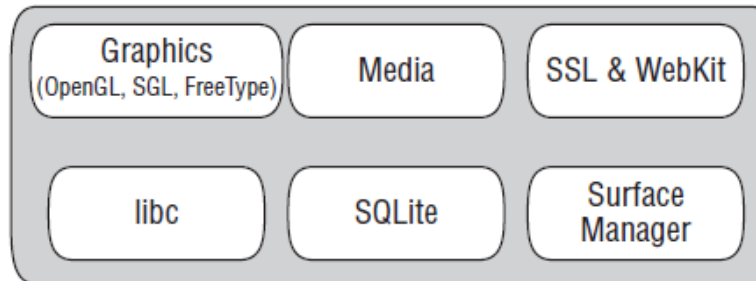
Application Layer



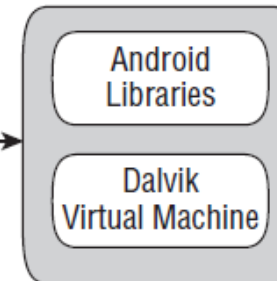
Application Framework



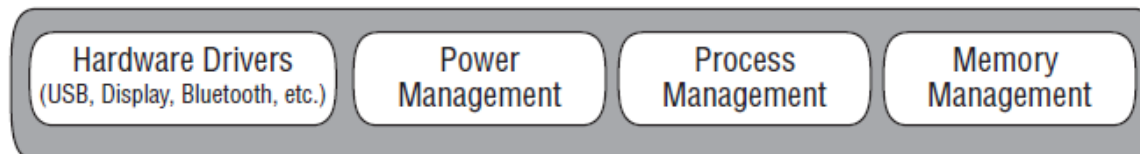
Libraries



Android Runtime



Linux Kernel



Professional Android Application Development

Programming Android applications in Java

- Android encourages high-level app development
- Android uses Java as the main programming language
- Android inherits basic classes from conventional Java
 - String, Container, Math, IO, Network, ...
- Android also adds new classes specific to mobile devices
 - Camera, Telephony, Map, GPS, Speech, ...