



## introduction to android

- mobile operating system running on the Linux kernel
- 1 Java language
- 1 Google-developed Java libraries
- 1 Open source

## introduction to android

- Android applications don't have a single entry point for everything in the application (no main() function, for example)
- <sup>1</sup> Rather, they have essential components that the system can instantiate and run as needed.
- 1 A task is a stack of activities











# development environments ii

- 1 Apache Ant
  - 1.6.5+ for Linux, Mac; 1.7+ Windows
  - 1 JDK 5 or JDK 6





- <sup>1</sup> Self-contained, CPU-contained operations
- $_{\scriptscriptstyle 1}\,$  e.g., signal processing, physics simulations, vision



### emulator

- 1 Virtual mobile device
- Supports Android Virtual Device (AVD) configurations
- Debug capabilities
- 1 Window > Android SDK and AVD Manager













### signing applications

- <sup>1</sup> Debug mode, done automatically
- When your application is ready for release, you must compile in release mode and then sign the .apk with your private key



## an

## android developer challenge

- 1 Android Developer Challenge 2 (over)
- Real-world users help review and score applications and the overall winner will take away \$250,000
- Probably next deadline August 2010

