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The Book:

The Busy Coder's Guide to Android Development by Mark Murphy

Hardware Requirements

- DRAM more the better 3gb + ideal
- □ CPU faster the better. Note: emulator uses 1 core only
 - 0 2.5GHz = good for phone emulator
 - □ 2.5GHz = not good for tablet emulator

Java

- U Writing in Java
- Source gets turned into Dalvik bytecode (the APK file)
- 1 Install the JDK (plain JDK fine)
 - 1 Java SESDK
 - □ Java 5 or 6 ok, 7 not supported

Alternative Java

- Official Java from Sun/Oracle recommended
- OpenJDK might work on ubuntu
- □ Not supported with our sessions but welcome to try it out.

Learn Java

- □ Not familiar with Java?
 - ☐ Might wish to brush up on Java fundamentals

Java Concepts Needed

- □ Language fundamentals (know C#?)
- O classes & Objects
- □ Methods & data members
- D Public, private, and protected
- □ Static & instance scope
- □ Exceptions

Java Concepts Needed

- □ Threads & concurrency control
- O Collections
- 0 Generics
- O File 1/0
- 1 Reflection
- 1 Interfaces

Install Android SDK

- □ Tools can be found on Android

 Developers Web Site
 - □ http://developer.android.com/sdk/ index.html
- Once installed, run Android SDK Manager

Android SDK Install:

- O SDK Platform
- Documentation for Android SDK
- O Samples for SDK
- O Google APIS
- ☐ Android SDK Platform-tools
- O Android Support package

Install the ADT for Eclipse

- 🗆 Install Eclipse if not installed already
- Install Android Development Tools
 (ADT)
 - □ Eclipse->Help->Install new
 - O Click Add
 - https://dl-ssl.google.com/android/eclipse

Set Up the Emulator

- □ AVD = Android Virtual Device
 - □ Create one: Eclipse->Window->AVD

 Manager
- O Start up once and leave running

Setup an Android Device

- On device: Settings->Applications ->
 Development
 - D Put a check for USB Debugging
- O Setup der machine to talk to derice
 - Install drivers if device not found/ recognized



Questions