

# android-eris-step-by-step

April 20, 2013

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# 1 TODO Building Your First App with the Eclipse and Android Development Tools (ADT)

## 1.1 TODO Build My First App

1. ☐ Start Eclipse
  - Error Loading DDMS Preferences
    - Add “android” binary to path
2. ☐ New Android Application
3. ☐ Application = My First App
4. ☐ Minimum Required SDK, Target SDK, Compile With = API 10: Android 2.3.3. (Gingerbread)
5. ☐ Theme = None
6. ☐ Finish

## 1.2 TODO Uninstall My First App

```
# -d directs command to the only connected USB device
#           returns an error if more than one USB device is present.
# -e directs command to the only running emulator.
```

```
adb -d uninstall com.example.myfirstapp
adb -e uninstall com.example.myfirstapp
```

## 1.3 [0/6] Create a Linear Layout

1. ☐ Open activity<sub>main</sub>.xml
2. ☐ Create a Linear Layout
  - (a) ☐ Delete the <TextView> element
  - (b) ☐ Change the <RelativeLayout> element to <LinearLayout>

- (c) ☐ Add the android:orientation attribute and set it to “horizontal”
- 3. ☐ Add a Text Field
- 4. ☐ Add String Resources
  - (a) ☐ edit<sub>message</sub>
  - (b) ☐ button<sub>send</sub>
- 5. ☐ Add a Button
- 6. ☐ Make the Input Box Fill in the Screen Width

#### 1.4 TODO [/] Start Another Activity

- 1. ☐ add the android:onClick attribute to the <Button> element

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/button_send"
    android:onClick="sendMessage" />
```

## 2 Step by step Tuesday, April 16

- 1. ☐ Power off
- 2. ☐ Volume down and power on
- 3. ☐ Volume up
- 4. ☐ Partition sdcard
  - (a) ☐ Partition SD
  - (b) ☐ Press twice
  - (c) ☐ Swap-size = 32 MB => 64 MB
  - (d) ☐ Ext2-size = 512 MB => 1024 MB
  - (e) ☐ Volume down to return
- 5. ☐ USB-MS toggle
- 6. ☐ Download Desirec Info stable build cm-7.2.0-desirec.zip md5sum =  
bd03e5ca49e8770cc00b319dd939336c

7. ☐ cp cm-7.2.0-desirec.zip to sd card
8. ☐ Press Trackball to disable USB-MS
9. ☐ Flash zip from sdcard
  - (a) ☐ Choose SDCARD:cm-7.2.0-desirec.zip
  - (b) ☐ Press trackball to confirm
10. ☐ Reboot system now
1. ☐ start adb as root

```
sudo adb
```

### 3 TODO [0/2] Create a Project with Command Line Tools

1. ☐ list targets

```
android list targets
```

2. ☐

```
#!/bin/sh
TARGET_ID="android-10"
# TARGET_ID="Google Inc.:Google APIs:10"
PATH_TO_WORKSPACE="/home/troy/workspace"

android create project --target $TARGET_ID --name MyFirstApp \
--path $PATH_TO_WORKSPACE/MyFirstApp --activity MainActivity \
--package com.example.myfirstapp
```

### 4 Step by step

1. ☐ Order tethering cable
  - USB Data Cable For HTC Droid Eris
  - Total: \$7.98

- <http://www.cellphoneshop.net/>
- 2. ☐ Order 8 GB MicroSDHC Card
  - 2254.30
- 3. ☐ [http://wiki.cyanogenmod.org/w/Main\\_Page](http://wiki.cyanogenmod.org/w/Main_Page)
- 4. ☐ About / what
- 5. ☐ How to install
- 6. ☐ [http://wiki.cyanogenmod.org/w/Desirec\\_Info](http://wiki.cyanogenmod.org/w/Desirec_Info)
- 7. ☐

## 5 Installing CyanogenMod from recovery

1. ☐ partition sd card
2. ☐ Download cm-7-20130301-NIGHTLY-desirec.zip
3. ☐ Place the CyanogenMod rom .zip file on the root of the SD card
 

```
adb push cm-7-20130301-NIGHTLY-desirec.zip /sdcard
```
4. ☐ Flash zip from sdcard
 

```
E: No zip files found
```
5. ☐ Install gapps-gb-20110828-signed.zip

## 6 Log

## 7 Android Applications

### 7.1 Free voice calls

## 8 HTC Droid Eris

**Screen** 3.2 inch HVGA 320x480

**Device Definition** 3.2" HVGA slider ADP1 (320 x 480, Normal mdpi screen)

## 9 Build

1. ☐ [http://wiki.cyanogenmod.org/w/Build\\_for\\_desirec](http://wiki.cyanogenmod.org/w/Build_for_desirec)

2. ☐

```
mkdir -p ~/bin
mkdir -p ~/android/system
```

3. ☐ repo

```
cd ~/bin && wget https://dl-ssl.google.com/dl/googlesource/git-repo/repo && chmod
```

4. ☐ path

```
export PATH=${PATH}:~/bin
```

5. ☐

```
cd ~/android/system/
repo init -u git://github.com/CyanogenMod/android.git -b gingerbread

repo sync
```

6. ☐ Get prebuilt Rom Manager

```
cd ~/android/system/vendor/cyanogen && ./get-rommanager
```

7. ☐

```
cd ~/android/system
source build/envsetup.sh
lunch
```

## 10 Links

- <http://android.stackexchange.com/questions/29828/how-can-i-mount-or-unmount-the-sd-card-using-adb>
- <http://developer.android.com/tools/index.html>
- <http://download.cyanogenmod.org/?type=stable&device=desirec>
- <http://forums.devshed.com/python-programming-11/importerror-no-module-named-cpickle-938161.html>
- <http://get.cm/?device=desirec>
- <http://goo.im/gapps>
- <http://wiki.cyanogenmod.org/w/ADB>
- [http://wiki.cyanogenmod.org/w/Build\\_for\\_desirec#Download\\_the\\_source\\_code](http://wiki.cyanogenmod.org/w/Build_for_desirec#Download_the_source_code)
- <http://wiki.cyanogenmod.org/w/Community>
- [http://wiki.cyanogenmod.org/w/Install\\_CM\\_for\\_desirec](http://wiki.cyanogenmod.org/w/Install_CM_for_desirec)
- [http://wiki.rootzwiki.com/Google\\_Apps](http://wiki.rootzwiki.com/Google_Apps)
- <http://www.addictivetips.com/mobile/the-complete-review-of-cyanogenmod-7-walkthrough-guide/#1>
- <http://www.droidforums.net/forum/motorola-droid/6489-how-pair-bluetooth-blueant-z9i.html>
- <http://www.economyofeffort.com/2010/07/30/turn-an-android-handset-into-a-free-wifi-phone-with-google-voice/>
- <https://code.google.com/p/cyanogenmod-kovsky/downloads/detail?name=gapps-gb-20110828-signed.zip&can=2&q=>
- <https://groups.google.com/forum/?fromgroups=#!topic/android-discuss/-Fp5VkTmW1k>
- <https://www.linux.com/learn/tutorials/698725-how-to-install-cyanogenmod-on-an-android-phone>

## 11 Android Applications

### 11.1 GrooVe IP Lite

**Access Request** ouath2:<https://www.googleapis.com/auth/googletalk>

??? <http://snrblabs.com/snrblabs/grooveIp.aspx>

#### 11.1.1 Echo problem on reciever end

- Change microphone volume from -2 to -8
- Change speaker volume from 0 to -5