# MLCUG - THE ANDROID CONNECTION

- What & Why - to introduce & familiarize you with some ways to establish interface connections with your Android device for the purpose of managing apps & transferring data & media, all without rooting the device ~~or using apps not offered in the Google or Amazon app stores~~
    - https://en.wikipedia.org/wiki/Rooting_(Android_OS)
- The following information is based on my experience with an LG Optimus S phone from Republic Wireless. The pictures are specific to that device & my Windows 7 PC.
- Google Android App Store
    - How to install Android apps
        - http://www.androidcentral.com/android-apps-install
    - Set up account thru device settings
        -

-
10:22
Settings
Applications
Accounts & sync
Privacy
Storage
Language & keyboard
Voice input & output
10:27
Accounts & sync settings
General sync settings
Background data
Applications can sync, send, and receive data at any time
Auto-sync
Applications sync data automatically
Manage accounts
jadek2210@gmail.com
Sync is ON
Add account

- Sign in & Browse Google App Store at:
  - https://play.google.com/store
  - https://play.google.com/store/account
  - Compatibility of app with your device

**This app is compatible with your Sprint LGE LG-LS670.**

**This app is incompatible with your Sprint LGE LG-LS670.**

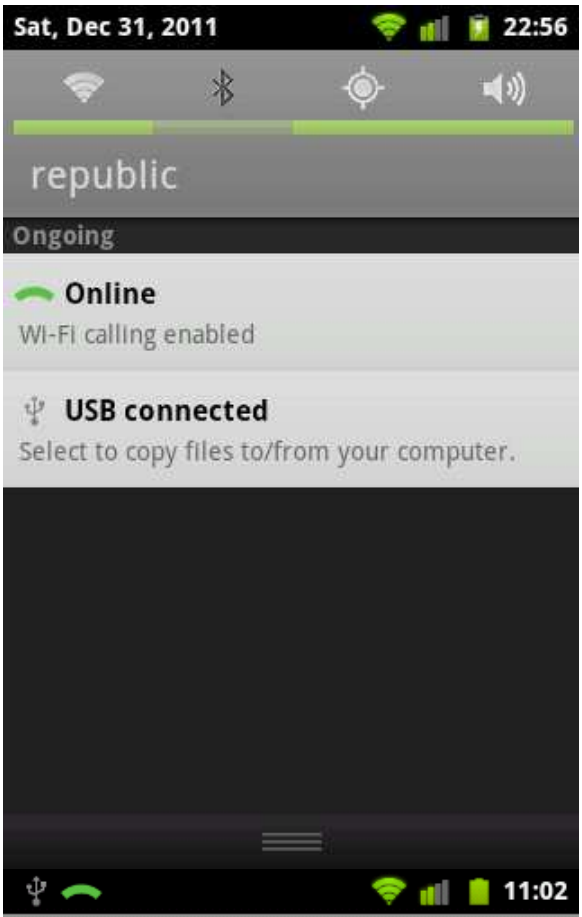
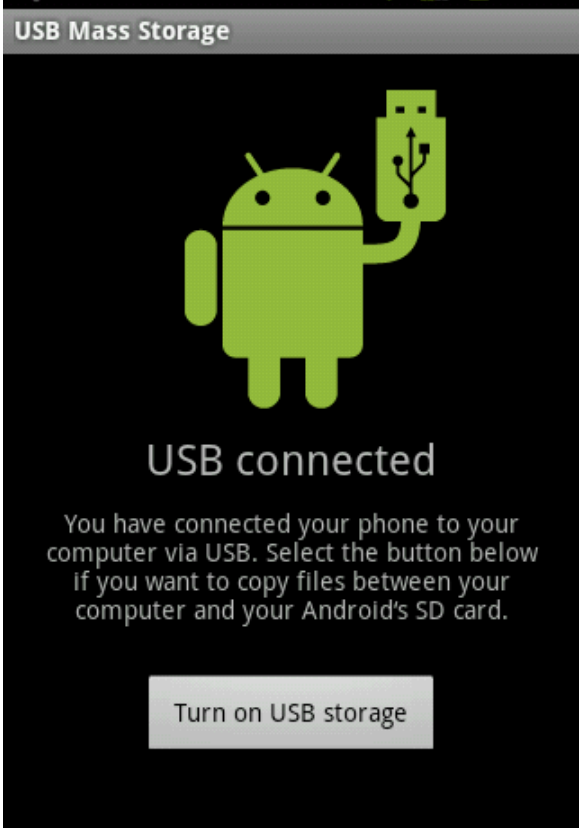
- Amazon Android App Store & other app sources
  - Google Android Market vs. Amazon Appstore for Android Apps
    - http://dealnews.com/features/Battle-Google-Android-Market-vs.-Amazon-Appstore-for-Android-Apps/468122.html
    - **below data published June 2011**

Google Android Market vs. Amazon Appstore for Android

| | **Android Market** | **Amazon Appstore** |
|---|---|---|
| | | |
| **Pre-installed on most phones** | **Yes** | No |
| **Quantity of apps** | **200,000** | 3,800 |
| **Deals & Exclusives** | No | **Yes** |
| **Ability to test drive apps** | No | **Yes*** |
| **Free App of the Day** | No | **Yes** |
| **Return Policy** | **Yes*** | No |

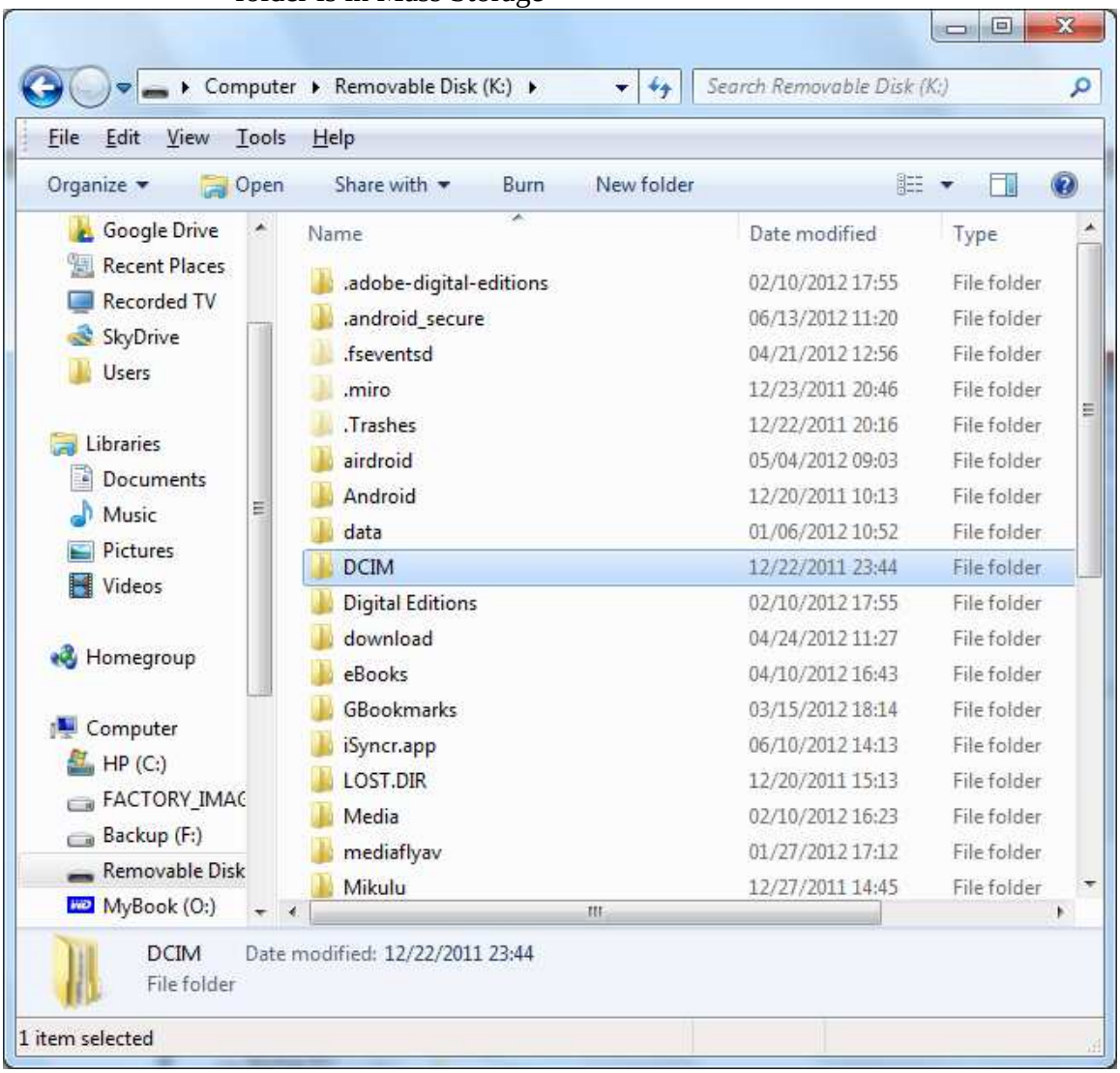
    - *For select apps only.
  - Setup for non-Google apps ("unknown sources")
    - https://www.amazon.com/gp/feature.html?ie=UTF8&docId=1000626391
  - Amazon Appstore for Android Support
    - http://www.amazon.com/gp/help/customer/display.html?nodeId=200551840

- As USB Mass Storage device
    - About drivers
        - mass storage should work w/o special drivers
        - Windows may complain about missing drivers
            - modem driver for tethering
            - may be other drivers for other features
    - Enabling thru Notifications menu to access SDcard
        -

- 
Sat, Dec 31, 2011
22:56
republic
Ongoing
Online
Wi-Fi calling enabled
USB connected
Select to copy files to/from your computer.
- 
11:02
USB Mass Storage
USB connected
You have connected your phone to your computer via USB. Select the button below if you want to copy files between your computer and your Android's SD card.
Turn on USB storage

-
11:05
USB Mass Storage
USB storage in use
Before turning off USB storage, make sure you have unmounted ("ejected") your Android's SD card from your computer.
Turn off USB storage

- The DCIM folder
  - DCIM = Digital Camera IMages
  - folder is in Mass Storage



- General file management apps I've installed (all WiFi)
    - Remote Desktop
        - includes limited CLI
    - AirDroid
        - similar to Remote Desktop, but no CLI
    - File Expert (the Swiss Army knife for Android file management)
        - All basic file operations - Copy, Paste, Move, Create and Rename your files and folders
        - FTP/HTTP Server - Share & Manage your files without a USB cable. Web management featuring a Windows style interface!
        - Cloud Storage - Use one app to access various cloud services! Support Dropbox, Box.net, SkyDrive and more!
        - SMB, FTP, SFTP, FTPS, WebDAV and Bluetooth OBEX Client - Access your host computer from your phone
        - Bluetooth - Full-featured Bluetooth capabilities include OBEX FTP, OPP
        - NFC Support. You can use NFC-enabled phone to transfer files and apps.
        - WiFi Send. Directly send files via WiFi between File Expert powered phones
        - App Manager - Uninstall/Backup apps. Support silent operations if on rooted devices
        - Archive manager - Create and decompress ZIP archive, Decompress RAR. You can view your ZIP/RAR/GZIP/TAR/TGZ/BZ file just like accessing a folder and directly decompress unique files and folders
        - Thumbnails - view thumbnails
        - Text Viewer
        - Image Viewer - supports both local and remote folder
        - Search SD card, perform operations on search results
- Media file management I've used
    - iSyncr & iSyncr WiFi addon
        - music management & syncing for iTunes users
        - USB version installs PC app in Mass Storage
        - WiFi addon requires server on PC
    - Miro on PC
        - https://www.getmiro.com/
            - more than just an interface to your portable device - Android or iOS
        - cross platform - Linux, Mac, Windows
        - requires USB connection to portable device
        - music & video processing, management, & syncing
    - Calibre on PC
        - http://calibre-ebook.com/
        - easily sync your digital library via WiFi
        - Aldiko app is recommended reader for ease of compatibility

- for Browser ease of use, especially on Android phone
    - GBookmark
        - tried other Google Bookmark utilities, but they gave me problems
- for ease of setup & use
    - use Google services, but not a requirement
    - email - I use Google Mail
    - contacts (phone directory) - I use Google Contacts
    - event reminders - I use Google Calendar
- Presentation Tools
    - especially for devices lacking video connectivity
    - for screen snapshots & screencasting
    - Requirements for capture / display of screen on PC
        - USB connection between Android device & PC
        - Java SDK (Java Software Development Kit)
            - http://www.oracle.com/technetwork/java/javase/downloads/index-jsp-138363.html#javasejdk
            - **NOTE:** by default the Apple supplied Java on Macs is the SDK. So Mac users do not need to concern themselves with this if running Apple supplied Java.
        - Android SDK (Android Software Development Kit)
            - https://developer.android.com/sdk/index.html
    - Instructions & options
        - http://www.butterscotch.com/tutorial/How-To-Display-Your-Android-Screen-On-Your-Desktop
            - the instructions cover how to screen snapshot & rotate
            - manual capture of screen; no auto refresh
        - http://www.mightypocket.com/2010/08/android-screenshots-screen-capture-screen-cast/
            - I have not been able to get this software working
            - But, found some of the installation info helpful when installing the other 2 options listed here, especially info about the Android SDK & USB driver info & Android debug setting
        - Screencasting
            - https://brianchau.wordpress.com/2011/03/13/android-screencast-for-displaying-device-screen-on-computer/
                - https://code.google.com/p/androidscreencast/
                - Slow refresh rate (about 4-5 fps)
                - Not all key codes are mapped. See KeyMapping
                - Does not support **automatic** screen rotation
                - Full mouse and keyboard control FOR ROOTED DEVICES ONLY
                - Landscape mode (right click)
                - Video recording
                - Basic file browser