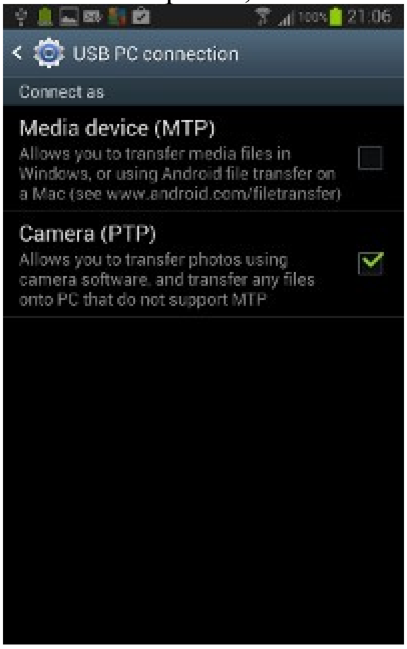
How to access an Android 4 phone

It now takes a lot of fiddling to get this to work due to changes to the Media Device(MTP) file system protocol with usb connections. See this post for example. I have found several ways to access a Samsung Galaxy Note - in order of difficulty (for me!) these are:

Method 1 with USB

```
apt-get install gphotofs
mkdir ~/android-device # or any other place with user permissions
```

Connect the phone, and in usb settings choose "Connect as Camera(PTP)"



USB PC connection

Connect as

Media device (MTP) □
Allows you to transfer media files in Windows, or using Android file transfer on a Mac (see www.android.com/filetransfer)

Camera (PTP) ☑
Allows you to transfer photos using camera software, and transfer any files onto PC that do not support MTP

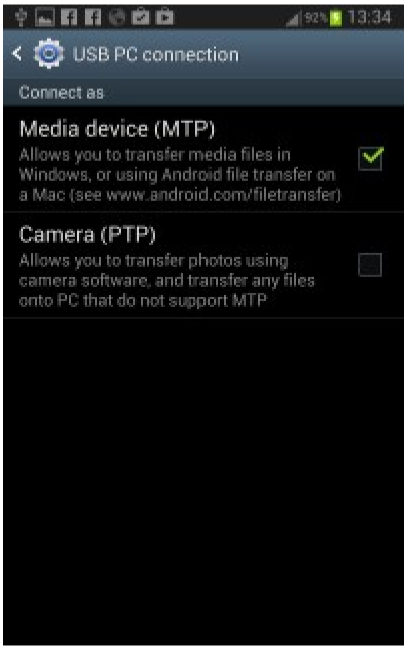
```
gphotofs ~/android-device
```

The media folders can now be displayed in thunar.

Before disconnecting, close the file browser and

```
fusermount -u ~/android-device
```

(EDIT: typo correction)
Weirdly I have found that sometimes the whole android filesystem is accessible by choosing "Connect as Media device(MTP)".



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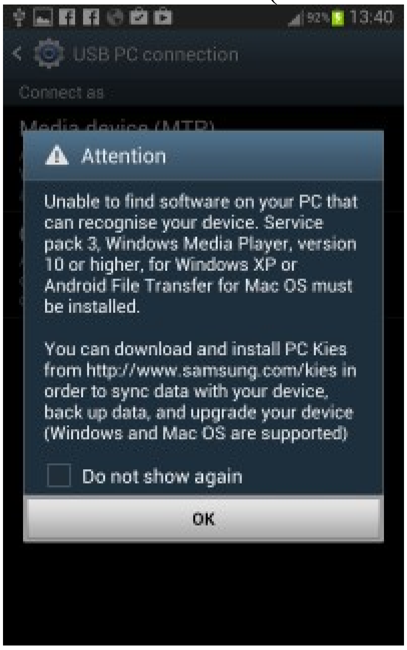
After a long delay a pop-up may say your pc doesn't have the correct software to display files, but then it mounts itself (on /dev/sdb in my case).



Attention

Unable to find software on your PC that can recognise your device. Service pack 3, Windows Media Player, version 10 or higher, for Windows XP or Android File Transfer for Mac OS must be installed.

You can download and install PC Kies from http://www.samsung.com/kies in order to sync data with your device, back up data, and upgrade your device (Windows and Mac OS are supported)

□ Do not show again

This has occurred whether PTP or MTP have been selected, which isn't supposed to happen! **fusermount -u** may not work then so

```
umount -l /dev/sdb
```

If you are lucky enough for this to happen, then you won't need to do the next method....

Method 2 with USB

Instead of using mtpfs to access an MTP filesystem, use the **go-mtpfs** library which simplifies everything

Install go-mtpfs, using a method found here: http://novaspirit.com/blog/?p=121

```
sudo apt-get install golang fuse git-core libmtp-dev libfuse-dev
sudo adduser $USER fuse
mkdir ~/tmp/go
export GOPATH=~/tmp/go
go get github.com/hanwen/go-mtpfs
sudo mv ~/tmp/go/bin/go-mtpfs /usr/bin
```

```
        mkdir ~/android-device
```

Now, go-mtpfs is installed. To mount your android device run

```
        go-mtpfs ~/android-device &
```

Contents of your phone can be found at ~/android-device folder in your home directory.
To unmount run these commands

```
fusermount -u ~/android-device
```

If this doesn't work due to a "filesystem busy etc" message, then umount it

To make it even more simple you can add aliases to your .bashrc file

```
        alias android-on='go-mtpfs ~/android-device &'
        alias android-off='fusermount -u ~/android-device'
```

I have found that trying to remount, with the same instance of Thunar open, sometimes results in failure. The mount command shows

```
Locked(DeviceFs(GT-N on /home/damo/android-device type fuse....)
```

I get round it with

```
umount -l /home/damo/android-device
```

and restarting Thunar

These inconsistencies are frustrating, but I find a direct usb connection is easier than the other options.

Method 3 with a web app using wifi or tethering
eg AirDroid

Description
Your Android, on the Web
AirDroid is a free and fast app that helps you manage your Android from a desk web browser, all over the air.

AirDroid philosophy:
※ One less cable.
Move things on and off your Android device without a USB cable. Even when the device is not nearby.
※ One less screen.
Send and receive SMS from your big-screen computer, without being distracted by the small-screen thing.
※ One less worry.

> Locate and lock your Android when it’s lost. Cannot get it back? Simply wipe all data remotely.

Pros: Good interface, easy to use, works well, log in via google/facebook etc if you want (option to stay logged in for an extended period)
Cons: Image galleries load slowly and it takes ages if multiple files need selecting; needs wifi connected

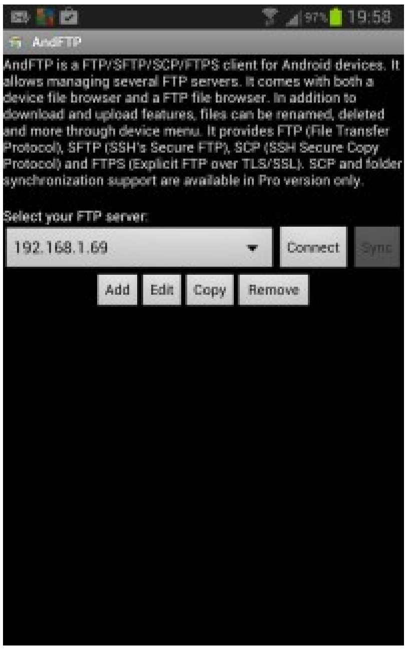
(Watch the camera view remotely, so you can get a screenshot of the sh** who has just stolen your phone 😁)

Method 4 with SSH/FTP

Works fine if you know your way around that stuff, and know the username and password for the phone.

I have tried AndFTP

> Description
> AndFTP is a FTP, FTPS, SCP, SFTP client. It can manage several FTP configurations. It comes with both device and FTP file browser. It provides download, upload, synchronization and share features with resume support. It can open (local/remote), rename, delete, update permissions (chmod), run custom commands and more. SSH RSA/DSA keys support. Share from gallery is available. Intents are available for third party applications. SCP and folder synchronization are available in Pro version only.



AndFTP is a FTP/SFTP/SCP/FTPS client for Android devices. It allows managing several FTP servers. It comes with both a device file browser and a FTP file browser. In addition to download and upload features, files can be renamed, deleted and more through device menu. It provides FTP (File Transfer Protocol), SFTP (SSH's Secure FTP), SCP (SSH Secure Copy Protocol) and FTPS (Explicit FTP over TLS/SSL). SCP and folder synchronization support are available in Pro version only.

Select your FTP server:

192.168.1.69

[I haven't spent any time investigating the oddities, and I haven't used ftp/ssh much, so if anyone can shed any light on these, we can add them to the HowTo.....]

Hope this is useful