

## MATT'S BASIC LINUX COMMANDS

**HELP**            **man & apropos**

### FILE NAVIGATION

**ls -l \*.jpg**    List all .jpg files  
**ls -a**            List all files including hidden

### FILES & DIRECTORIES

**mkdir -p**    Create directory & Parent  
**touch**        Create a new file  
**cat -s**        View file contents stdout  
**tac**            Reverse file contents  
**rm -r**        Remove files Recursively  
**mv -r**        Move/Rename Recursively  
**cp -r**        Copy directory  
**find**         Search for file or directory

### COMPRESS & EXTRACT

**tar cf dir.tar dir**    Create archive  
**tar cfz dir.tar dir**    Create a gzip tar  
**gzip file-name**        Gzip file  
**gunzip file.gz**        Gunzip file  
**tar xf file-name /dir** Extract tar to /directory

### OPTIONS:

-c	Create		--keep-old-files
-x	Extract		--overwrite
-f	Regular file type		--append
-d	Directory file type		--verify

### MISC

**wc -l**                    Count the lines in a file  
**sudo !!**                Repeats last command  
**diff file1.txt file2.txt** Diff two files  
**cat file > a.txt**        Single > redirects  
**cat file >> a.txt**        Double >> appends  
**gpg -c file**            Encrypts a file  
**gpg file.gpg**            Decrypts a file  
**grep -r pattern dir**    Find pattern in directory  
**passwd**                Change your password  
**CTRL+A**                Goto Start of line  
**CTRL+E**                Goto End of line  
**nohup command**        Immune to hangup signal

## FILE PERMISSIONS & OWNERSHIP

**chmod**        Change file permissions to execute  
**chown**        Change file owner  
**chgrp**        Change file grouping  
**chmod -R 755 folder**  
**chown <user> /u**    Change owner of /u to <user>  
**chmod +x file**        Make file executable

## SYSTEM RESOURCE MANAGEMENT

**free -m**        Show memory in use  
**top**            List processes  
**htop**            A better version of top  
**nice**            Start a process with priority  
**renice**          Change 'nice' value  
**kill -n**        Terminate process  
**echo \$VAR**      Display variable

## HARDWARE INFORMATION

**lspci**            List pci info  
**cat /proc/meminfo**    See RAM info  
**lshw**            List hardware info  
**lshw -C memory -short** Detect RAM info  
**hwinfo**          List hardware  
**lsusb**            List USB devices  
**lsmod**            Find modules loaded

**reboot**            Reboot the system  
**poweroff -now**      Shut down

## INSTALL SOURCE CODE

**./configure**  
**make & make install**

## FILE UTILITIES

**tr -d**            Translate/delete character  
**uniq -c -u**        Omit repeated lines  
**split -l**          Split file into pieces  
**cut -f**            Cut section(s) field(f)  
**sort -n**          Sort lines

## BASH SCRIPTS

1. Add: **#!/bin/bash** #AKA *Crunch-Bang*
2. Save file: **file-name.sh**
3. Use: **chmod +x file-name**
4. Run: **./file-name**