MATT'S BASIC LINUX COMMANDS

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   >   redirects
cat file >> a.txt   >> appends
gpg -c file   Encrypts a file
gpg file.gpg   Decrypts a file
passwd   Change your password
CTRL+A   Goto Start of line
CTRL+E   Goto End of line
nohup command   Immune to hangup signal

GREP – Globally / Regular Expression / Print
grep -r pattern dir
-f, --file=file   Take patterns from file
-w, --word-regexp   Match only whole words
-x, --line-regexp   Match only whole lines
-v, --invert-match   Non-matching lines
-n, --line-number   Print line # w/ output lines
-H, --with-filename   Print file name w/ output
-B, --before-context=NUM   Print before text
-A, --after-context=NUM   Print after text
-C, --context=NUM   Print num context
-r, --recursive
-c, --count
-i, --ignore-case

HELP   man & apropos

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

FILE PERMISSIONS & OWNERSHIP
chmod   Change permissions to execute
chown   Change file owner
chmod -R 755 dir
chown <user> /u Change owner of /u to <user>
chmod +x file   Make file executable

SYSTEM RESOURCE MANAGEMENT
sudo apt-get install htop – A better 'top'
nice (- is better)   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**   *Crunch-Bang Bin-Bash*
2. *Save file*: **file-name.sh**
3. *Use*: **chmod +x file-name**
4. *Run*: **./file-name**