Linux
Cheat Sheet

File Commands

ls	directory listing
ls -al	formatted listing with hidden files
cd dir	change directory to dir
cd	change to home
pwd	show current directory
mkdir dir	create a directory dir
rm file	delete file
rm -r dir	delete directory dir
rm -f file	force remove file
rm -rf dir	force remove directory dir •
cp file1 file2	copy file1 to file2
cp -r dir1 dir2	copy dir1 to dir2
mv file1 file2	rename/move file1 to file2
ln -s file link	create symbolic link to file
touch file	create or update file
cat > file	places standard input into file
more file	output the contents of file
head file	output the first lines of file
tail file	output the last lines of file
tail -f file	output the contents of file as it grows, starting with the last 10 lines

Process Management

ps	display your currently active processes
top	display all running processes
kill pid	kill process id pid
killall proc	kill all processes named proc •
fg	brings the most recent job to foreground
fg n	brings job n to the foreground
bg	lists stopped or backgr. jobs: resume a stopped job in the background

File Permissions

chmod octal file

change the permissions of file to octal.
which can be found separately
for user, group, and world by adding:
- 4 – read (r)
- 2 – write (w)
- 1 – execute (x)

Examples:
chmod 777 – read, write, execute for all
chmod 755 – rwx for owner, rx for group and world.
For more options, see <man chmod>.

SSH

ssh user@host	connect to host as user
ssh -p port user@host	connect to host on port as user
ssh-copy-id user@host	add your key to host for user to enable a keyed or passwordless login

Searching

grep pattern files	search for pattern in files
grep -r pattern dir	search recursively for pattern in dir
command	grep pattern	search for pattern in the output of command
locate file	find all instances of file

Network

ping host	ping host and output results
whois domain	get whois info for domain
wget file	download file

Compression

tar cf file.tar files	create a file.tar containing files
tar xf file.tar	extract the files from file.tar
tar czf file.tar.gz files	create a tar using Gzip
tar xzf file.tar.gz	extract a tar using Gzip

System Info

date	show the current date and time
cal	show this month's calendar
uptime	show current uptime
w	display who is online
whoami	who you are logged in as
finger user	display information about user
uname -a	show kernel information
cat /proc/cpuinfo	cpu information
cat /proc/meminfo	memory information
man command	show the manual for command
df	show disk usage
du	show directory space usage
free	show memory and swap usage
whereis app	show possible locations of app
which app	show which app will be run by default