

Unix basics	Compression
File Commands	
<p>ls – directory listing</p> <p>ls -al – formatted listing with hidden files</p> <p>find * – list path to all files below current directory level</p> <p>cd <dir> – change directory to <dir></p> <p>cd – change to home</p> <p>pwd – show current directory</p> <p>mkdir <dir> – create a directory <dir></p> <p>rm <file> – delete <file></p> <p>rm -r <dir> – delete directory <dir></p> <p>rm -f <file> – force remove file</p> <p>cp <file1> <file2> – copy <file1> to <file2></p> <p>cp -r <dir1> <dir2> – copy <dir1> to <dir2>; create <dir2> if it doesn't exist</p> <p>mv <file1> <file2> – rename or move <file1> to <file2>; if <file2> is an existing directory, moves <file1> into directory <file2></p> <p>ln -s <file> <link> – create symbolic link <link> to <file></p> <p>touch <file> – create or update <file></p> <p>cat <file> – dump <file> contents to screen</p> <p>less <file> – scroll through the contents of <file></p> <p>head <file> – output the first 10 lines of <file></p> <p>tail <file> – output the last 10 lines of <file></p> <p>tail -f <file> – output the contents of <file> as it grows, starting with the last 10 lines</p>	<p>tar -cf <file.tar> <files> – create a tar named <file.tar> containing <files></p> <p>tar -xf <file.tar> – extract the <files> from <file.tar></p> <p>tar -czf <file.tar.gz> <files> – create a tar with Gzip compression</p> <p>tar -xzf <file.tar.gz> – extract a tar using Gzip</p> <p>gzip <file> – compresses <file> and renames it to <file.gz></p> <p>gzip -d <file.gz> – decompresses <file.gz> back to <file></p>
Searching	vi / vim basics
<p>grep <pattern> <files> – search for <pattern> in <files></p> <p>grep -r <pattern> <dir> – search recursively for <pattern> in <dir></p> <p><command> grep <pattern> – search for <pattern> in the output of <command></p> <p>awk – tool to parse through files contents; see awk one-liners</p> <p>sed – tool to parse through file contents; see sed one-liners</p>	Quitting
	<p>:wq – exit, saving changes</p> <p>:q – exit as long as there have been no changes</p> <p>:q! – exit and ignore any changes</p>
Process Management	Inserting Text
<p>ps – display your currently active processes</p> <p>top – display all running processes</p> <p>kill pid – kill process id pid</p>	<p>i – insert before cursor</p> <p>I – insert before line</p> <p>a – append after cursor</p> <p>A – append after line</p> <p>o – open a new line after current line</p> <p>O – open a new line before current line</p> <p>esc – end inserting text</p>
Network	Deleting Text
<p>ssh <user>@<host> – connect to <host> as <user></p> <p>sftp <user>@<host> – connect to <host> as <user> for secure file transfer; once connected, navigate to the desired directory then use get <file> to download <file> from <host> to your computer, and put <file> to upload <file> from your computer to <host></p> <p>scp <user>@<host>:<hostdir/> <file> <dir> – connect to <host> as <user> for secure copy to download <file> that is located at the directory <hostdir> at <host> to the local directory <dir>. Use the -r flag to recursively download entire directories.</p> <p>scp <dir/> <file> <user>@<host>:<hostdir> – connect to <host> as <user> for secure copy to upload <file> that is located at the directory locally at <dir> to the <host> directory <dir>. Use the -r flag to recursively copy upload directories.</p>	<p>x – delete character to the right of cursor</p> <p>X – delete character to the left of cursor</p> <p>D – delete to the end of the line</p> <p>dd – delete current line</p> <p>:d – delete current line</p>
System Information	Search for strings
<p>date – show the current date and time</p> <p>man <command> – show the manual for <command></p> <p>df – show disk usage</p> <p>du – show directory space usage; use -h flag for better units</p> <p>which <app> – show location of <app> that will run by default</p>	<p>/string – search forward for string</p> <p>?string – search back for string</p> <p>n – search for next instance of string</p> <p>N – search for previous instance of string</p>
	Replace
	<p>:s/<pattern>/<string>/<flags> – replace <pattern> with <string> according to <flags>.</p> <p>g – flag to replace all occurrences of pattern</p> <p>c – flag to confirm replaces.</p>
	git basics
	<p>git clone <repo> – clone the <repo> to your local computer</p> <p>git init – create a new local repository</p> <p>git add . – add all current changes to next commit</p> <p>git commit -m "<msg>" – commit previously staged changes with message <msg></p> <p>git push – upload your local committed changes to the repository</p> <p>git pull – download current version of repo to local computer</p> <p>git status – show information, including branch name and changed files</p> <p>git branch – list all branches in current repository</p> <p>git branch <name> – create a new branch named <name></p> <p>git checkout <name> – switch to the branch <name></p>