# Intro to Linux Workshop – Cheat Sheet

**pwd** print working (current) directory

**cd** change directory

special directories

 **/** the root directory

 **~** your home directory

 **.** current directory

 **..** parent directory

**ls** list directory contents

**ls –a** list all directory contents

**ls –l** long listing

**cp** copy

**mv** move (or rename)

**rm** remove

**mkdir** make directory

**rmdir** remove directory (must be empty)

**cat** print file(s) to standard output (usually your screen)

**whoami** print user ID

**who am I** print user information

**groups** print user groups

**id** print user ID and groups

**who** information about logged-in users

**w** information about logged-in users

**bash**

←→ move left/right on line

↑↓ previous/next command in history

^a go to beginning of line

^e go to end of line

^k delete to end of line

**man** command manual

$ man ls show manual for ls command

file permissions

**r** read

**w** write

**x** execute (run)

ls -l /bin/bash

-rwxr-xr-x 1 root wheel [ … ] /bin/bash

rwx owner (root)

r-x group (wheel)

r-x everyone else

**date** print the date and time

**sort** sort the lines of a file

**grep** print lines matching a pattern

$ grep error myfile

 show lines containing “error” in myfile

redirection and pipes

$ date **>** myfile write date to myfile

$ date **>>** myfile append date to myfile

$ sort **<** myfile use myfile as input to sort

$ sort myfile **|** grep error

 sort myfile and send output to grep

**less** file reader

[space] next page

b previous page

g go to end of file

/ search

? search backwards

n repeat search

^g show location in file

**nano** editor

$ nano myfile edit myfile

←→ move left/right on line

↑↓ previous/next command in history

^a go to beginning of line

^e go to end of line

^k delete line

^o save file

^x exit

**sleep** 10 sleep 10 seconds

**echo** hi print hi

**exit** exits session

**logout** exits session

**^d** exits session

**^c** stop running command

**ps** list processes

**ps –e** list every process

**ps -aux** list every process with more info

**top** show processes

q quit top