EQUENCING WORKSHOP 2017



# **Unix/Linux cheat sheet**

## **Navigation Commands**

print working directory (dir) - shows what dir you're in pwd ls list the contents of a dir Is -I list the contents of a dir and show extra info about the files ls -a list all files, including hidden files cd change directory go to the parent directory cd .. cd ~ go to your home directory exit log out of the current session 1,↓ scroll through command history

[tab key] autocomplete current command/filename ctrl-a jump to the start of current command line ctrl-e jump to the end of current command line

# **Examining files**

file determine the type of a file

cat concatenate a file less view text files

head view first 10 lines of a file head -n x view first x lines of a file tail view last 10 lines of a file tail -n x view last x lines of a file

grep locate a pattern in a file (or files)

# Manipulating files and directories

cp copy a file

cp -i copy a file and ask before overwriting cp -r copy a directory with its contents mv x y move or rename a file x to y

mv -i move or rename a file and ask before overwriting

rm remove a file

rm -r remove a directory with its contents

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## Manipulating files and directories (cont.)

rm -i ask before removing a file. Good to use with the -r option

mkdir make a directory

rmdir remove an empty directory chmod change permissions of a file

sort sort files (merges too) (useful: --ignore-case and --key=x)

#### Internet

wget download a file

ssh connect via secure shell to a machine scp upload/download files. examples:

upload: scp local\_source user@host:~/destination

download: scp user@host:~/remote\_source local\_destination

#### Multi-tasking

ctrl+z stops whatever program you are using

bg lists stopped jobs; resumes the last stopped job and runs it in the background

jobs lists stopped or backgrounded jobs

fg brings most recent backgrounded job to the foreground

fg x brings job x to the foreground

ctrl+c terminates whatever program you are using (permanently)

# Compression

tar -cvf create a tar archive tar -xvf extract a tar archive

tar -czvf create a tar.gz (gunzip'ed) archive tar -xzvf extract/unzip a tar.gz archive

zip zip a file
unzip un-zip a file
gzip gzip a file
gunzip un-gzip a file

#### Pipe tools

wc word-count (and lines, and bytes) sort sort (by default on first column)

uniq merge repeated lines tr translate characters tee save intermediate results

For help with any of the above commands, try these commands:

## **Help Commands**

man read manual for a command

man –k search for manual page via a keyword whereis x show locations for application x

which x show which application x will be run by default