8. cal [month] [year]

boyka@Jennifer:~/Documents\$ cal 08 1993 August 1993 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

9. printenv
XDG_VTNR=7
XDG_SESSION_ID=c2
XDG_GREETER_DATA_DIR=/var/lib/lightdm-data/boyka
CLUTTER_IM_MODULE=
QT_STYLE_OVERRIDE=gtk
SESSION=xubuntu
GLADE_PIXMAP_PATH=:
SHELL=/bin/bash
XDG_MENU_PREFIX=xfceTERM=xterm
WINDOWID=50331652

UPSTART SESSION=unix:abstract=/com/ubuntu/upstart-session/1000/1181

GNOME KEYRING CONTROL=

USER=boyka

LS COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40; 33;01:or=40;31;01:su=37;41:sq=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=0 1;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:* =01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.tzo=01;31:*.zip=01;31:*.z=01;31:*.Z=01;31:*.dz=01 ;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;3 1:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=0 1;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab =01;31:*.jpg=01;35:*.jpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01; 35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svg= =01;35:*.mnq=01;35:*.pcx=01;35:*.mov=01;35:*.mpq=01;35:*.mpeq=01;35:*.m2v=01;35:*.mkv= 01;35:*.webm=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=0 1;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli =01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.e mf=01;35:*.axv=01;35:*.anx=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;3 6:*.m4a=00;36:*.mid=00;36:*.mid=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*. ra=00;36:*.wav=00;36:*.axa=00;36:*.oga=00;36:*.spx=00;36:*.xspf=00;36:

CLUTTER BACKEND=x11

XDG_SESSION_PATH=/org/freedesktop/DisplayManager/Session0 GLADE MODULE PATH=:

XDG SEAT PATH=/org/freedesktop/DisplayManager/Seat0

SSH_AUTH_SOCK=/run/user/1000/keyring/ssh

SESSION_MANAGER=local/Jennifer:@/tmp/.ICE-unix/1328,unix/Jennifer:/tmp/.ICE-unix/1328

DEFAULTS_PATH=/usr/share/gconf/xubuntu.default.path

XDG CONFIG DIRS=/etc/xdg/xdg-xubuntu:/usr/share/upstart/xdg:/etc/xdg:/etc/xdg

PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/sbin:/bin:/usr/games:/usr/local/games

DESKTOP_SESSION=xubuntu

QT IM MODULE=

XDG SESSION TYPE=x11

PWD=/home/boyka

JOB=dbus

XMODIFIERS=

LANG=en US.UTF-8

GNOME_KEYRING_PID=

GDM LANG=en US

MANDATORY_PATH=/usr/share/gconf/xubuntu.mandatory.path

IM CONFIG PHASE=1

GDMSESSION=xubuntu

SESSIONTYPE=

XDG SEAT=seat0

HOME=/home/boyka

SHLVL=1

LANGUAGE=en US

GTK OVERLAY SCROLLING=0

UPSTART_INSTANCE=

UPSTART EVENTS=started xsession

XDG SESSION DESKTOP=xubuntu

LOGNAME=boyka

XDG_DATA_DIRS=/usr/share/xubuntu:/usr/share/xfce4:/usr/local/share/:/usr/share/:/usr/share

QT4 IM MODULE=

DBUS SESSION BUS ADDRESS=unix:abstract=/tmp/dbus-bpDFnvvgSQ

LESSOPEN=| /usr/bin/lesspipe %s

INSTANCE=

UPSTART JOB=startxfce4

DISPLAY=:0.0

XDG_RUNTIME_DIR=/run/user/1000

GLADE_CATALOG_PATH=:

XDG CURRENT DESKTOP=XFCE

GTK IM MODULE=

LESSCLOSE=/usr/bin/lesspipe %s %s

COLORTERM=xfce4-terminal

XAUTHORITY=/home/boyka/.Xauthority

_=/usr/bin/printenv

10. cat mydata.txt will display the contents of the file.

boyka@Jennifer:~/Documents\$ cat mydata.txt My name is Boyka. My home city is Anaheim. I would like to graduate in April, 2017.

11. touch mydata.txt

boyka@Jennifer:~/Documents\$ touch mydata.txt
boyka@Jennifer:~/Documents\$ cat mydata.txt
My name is Boyka.
My home city is Anaheim.
I would like to graduate in April, 2017.

12. tac mydata.txt

boyka@Jennifer:~/Documents\$ tac mydata.txt I would like to graduate in April, 2017. My home city is Anaheim. My name is Boyka.

13. free -m

boyka@Jennifer:~/Documents\$ free -m

	total	used	free	shared	buffers	cached
Mem:	3814	2035	1779	192	57	1053
-/+ buffers/cache:		923	2890			
Swap:	3951	0	3951			

14. history 18

boyka@Jennifer:~/Documents\$ history 18 31 tac mydata.txt qq 32 tac mydata.txt 33 free -m 34 cat /proc/meminfo 35 htop 36 top 37 vmstat --help 38 free -m 39 free --help 40 free -g 41 free -m 42 clear 43 ls 44 cd 45 cd Documents/ 46 ls 47 clear 48 history 18

15. history -c

16. lsblk

```
boyka@Jennifer:~$ lsblk
NAME
                        MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda
                                0 74.5G 0 disk
                          8:0
-sda1
                          8:1
                              0 243M 0 part /boot
 -sda2
                          8:2 0
                                     1K 0 part
 -sda5
                          8:5 0 74.3G 0 part
  ∟sda5 crypt
                        252:0 0 74.3G 0 crypt
    -xubuntu--vg-root 252:1 0 70.4G 0 lvm
    xubuntu--vg-swap_1 252:2 0 3.9G 0 lvm
11:0 1 1024M 0 rom
                                                 [SWAP]
sr0
```

17. hddtemp

```
boyka@Jennifer:~$ sudo hddtemp --unit=C /dev/sda
/dev/sda: WDC WD800JD-75MSA1: 38°C
boyka@Jennifer:~$ sudo hddtemp --unit=F /dev/sda
/dev/sda: WDC WD800JD-75MSA1: 100°F
```

18. uptime

```
boyka@Jennifer:~$ uptime
15:28:33 up 12 min, 2 users, load average: 0.11, 0.32, 0.34
```

19. Install handbrake

- sudo add-apt-repository ppa:stebbins/handbrake-releases
- 2. sudo apt-get update
- 3. sudo apt-get install handbrake-gtk handbrake-cli

20. df -k

```
boyka@Jennifer:~$ df -k
                        Used Available Use% Mounted on
Filesystem
            1K-blocks
udev
                        0 1933584 0% /dev
             1933584
tmpfs
               390604
                              384412 2% /run
                      6192
/dev/dm-1 72492336 4329424 64457468 7% /
             1953016 1236 1951780 1% /dev/shm
tmpfs
tmpfs
                 5120
                        4
                                5116 1% /run/lock
             1953016 0 1953016 0% /sys/fs/cgroup
tmpfs
             240972 103556
390604 44
                             124975 46% /boot
/dev/sdal
tmpfs
                      44
                              390560 1% /run/user/1000
```

21. du -sh Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/*

```
boyka@Jennifer:~$ du -sh Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/*
4.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/ac97 bus.c
296K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/aoa
84K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/arm
64K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/atmel
1.4M
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/core
380K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa-kernel/Documentation
696K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa-kernel/drivers
152K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/firewire
4.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/HEAD
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/i2c
172K
944K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/include
1.4M
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/isa
4.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa-kernel/Kconfig
4.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/last.c
4.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/Makefile
120K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/mips
8.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/oss
48K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/parisc
8.9M
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/pci
116K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/pcmcia
284K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/ppc
48K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/sh
9.3M
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/soc
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/sound core.c
16K
4.0K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/sound firmware.c
184K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/sparc
44K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/spi
164K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/synth
12K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/trace events
156K
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa/alsa-kernel/uapi
       Downloads/Rt-Linux-HDaudio-5.18/alsa-driver-RTv5.18/alsa-kernel/usb
968K
```

22. ls -l

```
boyka@Jennifer:~/Pictures$ ls -l
total 424
-rw-rw-r-- 1 boyka boyka 131660 Apr 14 14:13 10.png
-rw-rw-r-- 1 boyka boyka 9080 Apr 14 14:26 11.png
-rw-rw-r-- 1 boyka boyka 8524 Apr 14 14:29 12.png
-rw-rw-r-- 1 boyka boyka 10310 Apr 14 14:34 13.png
-rw-rw-r-- 1 boyka boyka 18098 Apr 14 14:37 14.png
-rw-rw-r-- 1 boyka boyka 4252 Apr 14 14:38 15.png
-rw-rw-r-- 1 boyka boyka 17953 Apr 14 15:22 16.png
-rw-rw-r-- 1 boyka boyka 12409 Apr 14 15:26 17.png
-rw-rw-r-- 1 boyka boyka 5967 Apr 14 15:28 18.png
-rw-rw-r-- 1 boyka boyka 148154 Apr 14 16:14 21.png
-rw-rw-r-- 1 boyka boyka 11316 Apr 14 14:22 8.png
```

23. chmod 436 printenv.txt

```
boyka@Jennifer:~/Documents$ ls -l
total 8
-rw-rw-r-- 1 boyka boyka 84 Apr 14 14:25 mydata.txt
-rw-rw-r-- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
boyka@Jennifer:~/Documents$ chmod 436 printenv.txt
boyka@Jennifer:~/Documents$ ls -l
total 8
-rw-rw-r-- 1 boyka boyka 84 Apr 14 14:25 mydata.txt
-r---wxrw- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
```

24. chmod 241 mydatacopy.txt

```
boyka@Jennifer:~/Documents$ ls -l
total 12
-rw-rw-r-- 1 boyka boyka 84 Apr 14 16:25 mydatacopy.txt
-rw-rw-r-- 1 boyka boyka 84 Apr 14 14:25 mydata.txt
-r---wxrw- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
boyka@Jennifer:~/Documents$ chmod 241 mydatacopy.txt
boyka@Jennifer:~/Documents$ ls -l
total 12
--w-r----x 1 boyka boyka 84 Apr 14 16:25 mydatacopy.txt
-rw-rw-r-- 1 boyka boyka 84 Apr 14 14:25 mydata.txt
-r---wxrw- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
```

25. sudo chgrp Linux253 mydatacopy.txt

```
boyka@Jennifer:~/Documents$ ls -l
total 12
--w-r---x 1 boyka boyka 84 Apr 14 16:25 mydatacopy.txt
-rw-rw-r-- 1 boyka boyka 84 Apr 14 14:25 mydata.txt
-r---wxrw- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
boyka@Jennifer:~/Documents$ sudo chgrp Linux253 mydatacopy.txt
boyka@Jennifer:~/Documents$ ls -l
total 12
--w-r---x 1 boyka Linux253 84 Apr 14 16:25 mydatacopy.txt
-rw-rw-r-- 1 boyka boyka 84 Apr 14 14:25 mydata.txt
-r---wxrw- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
```

26. sudo chown root printenvcopy.txt

```
boyka@Jennifer:~/Documents$ ls -l
total 16
--w-r---x 1 boyka Linux253 84 Apr 14 16:25 mydatacopy.txt
-rw-rw-r-- 1 boyka boyka
                              84 Apr 14 14:25 mydata.txt
-r---wxr-- 1 boyka boyka
                           3131 Apr 14 16:36 printenvcopy.txt
-r---wxrw- 1 boyka boyka
                           3131 Apr 14 14:08 printenv.txt
boyka@Jennifer:~/Documents$ sudo chown root printenvcopy.txt
boyka@Jennifer:~/Documents$ ls -l
total 16
--w-r---x 1 boyka Linux253
                              84 Apr 14 16:25 mydatacopy.txt
-rw-rw-r-- 1 boyka boyka
                              84 Apr 14 14:25 mydata.txt
-r---wxr-- 1 root boyka
                            3131 Apr 14 16:36 printenvcopy.txt
-r---wxrw- 1 boyka boyka 3131 Apr 14 14:08 printenv.txt
```

27. mkdir Francine

cp mydata.txt Francine/

28. cd Francine

```
boyka@Jennifer:~/Documents$ cd Francine/
boyka@Jennifer:~/Documents/Francine$
```

29. cd...

```
boyka@Jennifer:~/Documents/Francine$ cd .. boyka@Jennifer:~/Documents$ |
```

30. rm printenvcopy.txt

```
boyka@Jennifer:~/Documents$ ls
Francine mydatacopy.txt mydata.txt printenvcopy.txt printenv.txt
boyka@Jennifer:~/Documents$ rm printenvcopy.txt
boyka@Jennifer:~/Documents$ ls
Francine mydatacopy.txt mydata.txt printenv.txt
```

31. exit

No, the history of the previous session was not removed once I exit the window.

```
boyka@Jennifer:~$ history

1 whoami
2 hostname
3 history
4 lsblk
5 tar xfvj 0001-LinuxPkg_5.18rc8.tar.bz2
6 ls
7 cd Rt-Linux-HDaudio-5.18/
8 ls
9 cat Readme.txt
10 ls
11 tar xfvj alsa-driver-RTv5.18rc8.tar.bz2
12 cd alsa-driver-RTv5.18/
13 ls
14 cd alsa/
```

```
33.
                boyka@Jennifer:~$ df --block-size=1024 /dev/sdal
                Filesystem
                               1K-blocks Used Available Use% Mounted on
                /dev/sdal
                                  240972 103556
                                                   124975 46% /boot
                bovka@Jennifer:~$ df --block-size=1000 /dev/sdal
                               1kB-blocks Used Available Use% Mounted on
                Filesystem
                                   246756 106042
                                                    127975 46% /boot
                /dev/sdal
                boyka@Jennifer:~$ df -h /dev/sdal
                Filesystem
                                Size Used Avail Use% Mounted on
                                236M 102M 123M 46% /boot
                /dev/sdal
                boyka@Jennifer:~$ df -H /dev/sdal
                Filesystem
                                Size Used Avail Use% Mounted on
                /dev/sdal
                                247M 107M 128M 46% /boot
          boyka@Jennifer:~/Documents$ du -ah *
 34.
          12K
                  Francine/Pictures/11.png
          12K
                  Francine/Pictures/12.png
          12K
                  Francine/Pictures/8/8.png
          12K
                  Francine/Pictures/8/10/10.png
          16K
                  Francine/Pictures/8/10
          32K
                  Francine/Pictures/8
          60K
                  Francine/Pictures
                  Francine/francinedata.txt
          4.0K
          68K
                  Francine
          4.0K
                  Misc/miscdata.txt
          81M
                  Misc/chrome-linux.zip
          73M
                  Misc/New Folder/Waterfox/WaterfoxPortable 44.0.3 English.paf.exe
          73M
                  Misc/New Folder/Waterfox
                  Misc/New Folder/newfolderdata.txt
          4.0K
          73M
                  Misc/New Folder
          154M
                  Misc
          4.0K
                  mydatacopy.txt
          4.0K
                  mvdata.txt
          4.0K
                  printenv.txt
      boyka@Jennifer:~/Documents$ du -a --block-size=1024 --max-depth=3 *
       12
              Francine/Pictures/11.png
      12
              Francine/Pictures/12.png
       12
              Francine/Pictures/8/8.png
       16
              Francine/Pictures/8/10
       32
              Francine/Pictures/8
      60
              Francine/Pictures
       4
              Francine/francinedata.txt
      68
              Francine
              Misc/miscdata.txt
       4
      82540
              Misc/chrome-linux.zip
       74208
              Misc/New Folder/Waterfox/WaterfoxPortable 44.0.3 English.paf.exe
       74212
              Misc/New Folder/Waterfox
              Misc/New Folder/newfolderdata.txt
              Misc/New Folder
      74220
      156768 Misc
              mydatacopy.txt
      4
       4
              mydata.txt
       4
              printenv.txt
```

```
boyka@Jennifer:~/Documents$ du -a --block-size=1000 --max-depth=2 *
13
        Francine/Pictures/11.png
13
        Francine/Pictures/12.png
33
       Francine/Pictures/8
62
       Francine/Pictures
       Francine/francinedata.txt
70
       Francine
       Misc/miscdata.txt
84521 Misc/chrome-linux.zip
75994 Misc/New Folder/Waterfox
       Misc/New Folder/newfolderdata.txt
76002 Misc/New Folder
160531 Misc
       mydatacopy.txt
5
       mydata.txt
5
       printenv.txt
```

35. sudo apt-cache show vlc

Yes, the command shows very useful information like, application-version, dependencies, description, maintainer, architecture, installation size as well as security information like MD5sum, SHA1 and SHA256 keys.