# LINUX AND ROS CHEAT SHEET

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print environment variables
print system date and time
print current month calendar
print system uptime
print online users
print current user
print information about \$USER
print kernel information
print cpu information
print memory information
print user manual of \$COMMAND
print disk usage
print directory space usage
print memory and swap usage
print locations of \$APP
print print executable file of \$APP

**Variable Declaration** \$VARIABLE stands for a variable whose name is VARIABLE. For example, \$FILE means a file named FILE. **sudo** sudo means super user do, elevated right granted

## **File Commands**

ls	list contents of files and directories
ls -a	list hidden files and directories
cd \$DIR	change working directory to \$DIR
cd	change working directory to home
mkdir \$DIR	create a directory named \$DIR
pwd	print working directory
rm \$FILE	remove \$FILE
rm -r \$DIR	remove \$DIR
rm -f \$FILE	force remove \$FILE
rm -rf \$DIR	force remove \$DIR
cp \$FILE1 \$FILE2	copy \$FILE1 to \$FILE2
cp -r \$DIR1 \$DIR2	copy \$DIR1 to \$DIR2
mv \$FILE1 \$FILE2	move \$FILE1 to \$FILE2
ln -s \$FILE \$LINK	create symbolic link \$LINK to \$FILE
touch \$FILE	create \$FILE
cat \$FILE	view content of \$FILE
cat > \$FILE	write input into \$FILE
more \$FILE	print contents of \$FILE
head \$FILE	print the first 10 lines of \$FILE
tail \$FILE	print the last 10 lines of \$FILE

## Compression

tar cf \$FILE.tar \$FILES	convert \$FILES into \$FILE.tar
tar xf \$FILE.tar	extract files from \$FILE.tar
tar czf \$FILE.tar.gz \$FILES	compress \$FILES into \$FILE.tar.gz using Gzip
tar xfz \$FILE.tar.gz	extract files from \$FILE.tar.gz using Gzip
gzip \$FILE	compress \$FILE and rename it as \$FILE.gz
gzip -d \$FILE.gz	decompress \$FILE.gz back to \$FILE

# Network

apt-get update	synchronize package index files from sources
apt-get upgrade	install latest versions of installed packages
apt-get install \$PACKAGE	install \$PACKAGE
ip address	print all internet protocol addresses
ping \$HOST	ping \$HOST and print results
whois \$DOMAIN	print information about \$DOMAIN
dig \$DOMAIN	print DNS of \$DOMAIN
dig -x \$HOST	reverse lookup \$HOST
wget \$FILE	download \$FILE

### **Terminator**

Ctrl+Alt+T	launch a new terminal
Ctrl+C	kill the current process
Ctrl+Z	suspend the current process
fg	resume the suspended process in foreground
bg	resume the suspended process in background
Ctrl+D	log out of the current session
Ctrl+W	erase one word in the current line
Ctrl+U	erase the whole current line
Ctrl+R	reverse search in the previous commands
!!	execute the last command
exit	log out of the current session
Ctrl+Shift+E	split the window vertically vertically
Ctrl+Shift+O	split window horizontally

### - TODO

ubuntu mono font for commands		
tab auto-completion		
tar explanation		