

```

# .bashrc

# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi

# Define some colors first:
red='\e[0;31m'
RED='\e[1;31m'
blue='\e[0;34m'
BLUE='\e[1;34m'
cyan='\e[0;36m'
CYAN='\e[1;36m'
GREEN='\e[0;32m'
YELLOW='\e[1;33m'
NC='\e[0m'          # No Color

# User specific aliases and functions
#-----
# The 'ls' family
#-----
alias ll="ls -l --group-directories-first"
alias la='ls -Al'      # show hidden files
alias lx='ls -lXB'     # sort by extension
alias lk='ls -lSr'     # sort by size, biggest last
alias lc='ls -ltcr'    # sort by and show change time, most recent last
alias lu='ls -ltur'    # sort by and show access time, most recent last
alias lt='ls -ltr'     # sort by date, most recent last
alias lm='ls -al |more' # pipe through 'more'
alias lr='ls -lR'      # recursive ls
alias tree='tree -Csu'  # nice alternative to 'recursive ls'
alias h='history'
alias j='jobs -l'
alias which='type -a'
alias ..='cd ..'
alias du='du -kh'      # Makes a more readable output.
alias dk='df -kTh'
alias lot='lsof -i tcp' # List all open files using tcp
alias lou='lsof -i tcp' # List all open files using udp

#-----
# Functions - Handy functions to have
#-----
function helpme()
{
    echo -e "\n"
    echo -e "\t${BLUE}List of Commands and Aliases$NC"
    echo -e "\n"
    echo -e "\tAliases"
    echo -e "-----"
    echo -e "${RED}ll$NC          \t\tshow listing with directories first"
    echo -e "${RED}la$NC           \t\tshow hidden files"
}

```

```
echo -e "${RED}ix$NC\t\tsort by extension"
echo -e "${RED}lk$NC\t\tsort by size, biggest last"
echo -e "${RED}lc$NC\t\tsort by and show change time, most recent last"
echo -e "${RED}lu$NC\t\tsort by and show access time, most recent last"
echo -e "${RED}lt$NC \t\tsort by date, most recent last"
echo -e "${RED}lm$NC      \t\tpipe through 'more'"
echo -e "${RED}lr$NC \t\trecursive ls"
echo -e "${RED}tree$NC     \t\tnice alternative to 'recursive ls'"
echo -e "${RED}h$NC \t\thistory"
echo -e "${RED}j$NC \t\tlist jobs"
    echo -e "${RED}..$NC       \t\tcd .."
    echo -e "${RED}du$NC        \t\tmakes format more readable"
    echo -e "${RED}dk$NC        \t\tteasier format and more information"
echo -e "${RED}lot$NC   \t\tList all open files using tcp"
echo -e "${RED}lou$NC    \t\tList all open files using udp"
    echo -e "\n"
    echo -e "\tCommands"
    echo -e "-----"
    echo -e "extract <filename>\t\textract any archive"
    echo -e "change2user <username>\t\tsudo to a user and setup X for remote
display"
        echo -e "change2root                \t\tsudo to root with X display setup for remote
export"
            echo -e "lowercase          \t\tmove filenames to lowercase"
            echo -e "killps             \t\tkill process by name"
            echo -e "repeat           <N> <command>  \t\trepeat command N times"
            echo -e "corename <core>   \t\tGet name of app that created a corefile"
            echo -e "ii               \t\tGet information about current host"
            echo -e "\n"
}
function extract() # Handy Extract Program.
{
    if [ -f $1 ] ; then
        case $1 in
            *.tar.bz2) tar xvjf $1 ;;
            *.tar.gz) tar xvzf $1 ;;
            *.bz2) bunzip2 $1 ;;
            *.rar) unrar x $1 ;;
            *.gz) gunzip $1 ;;
            *.tar) tar xvf $1 ;;
            *.tbz2) tar xvjf $1 ;;
            *.tgz) tar xvzf $1 ;;
            *.zip) unzip $1 ;;
            *.Z) uncompress $1 ;;
            *.7z) 7z x $1 ;;
            *) echo "$1' cannot be extracted via >extract<" ;;
        esac
    else
        echo "'$1' is not a valid file"
    fi
}

function change2user() #Handy for exporting displays as a different user than the one you
logged in as
```

```
{
    echo "Changing permissions on Xauthority file."
    chmod 644 ~/.Xauthority
    echo -n "Getting user shell...."
    NEWUSERSHELL=`ypcat passwd | grep $1 | awk -F: '{ print $7 }'`
    echo $NEWUSERSHELL
    XAUTHORITY=$HOME/.Xauthority DISPLAY=$DISPLAY sudo su - $1 $NEWUSERSHELL
}
```

function change2root() #Handy for exporting the display when you su - root

```
{
    echo "Changing permissions on Xauthority file."
    chmod 644 ~/.Xauthority
    echo -n "Getting user shell...."
    NEWUSERSHELL=/bin/bash
    echo $NEWUSERSHELL
    XAUTHORITY=$HOME/.Xauthority DISPLAY=$DISPLAY sudo su -
}
```

function lowercase() # move filenames to lowercase

```
{
    for file ; do
        filename=${file##*/}
        case "$filename" in
            */*) dirname=${file%/*} ;;
            *) dirname=. ;;
        esac
        nf=$(echo $filename | tr A-Z a-z)
        newname="${dirname}/${nf}"
        if [ "$nf" != "$filename" ]; then
            mv "$file" "$newname"
            echo "lowercase: $file --> $newname"
        else
            echo "lowercase: $file not changed."
        fi
    done
}
```

function killps() # Kill by process name.

```
{
    local pid pname sig="-TERM" # Default signal.
    if [ "$#" -lt 1 ] || [ "$#" -gt 2 ]; then
        echo "Usage: killps [-SIGNAL] pattern"
        return;
    fi
    if [ $# = 2 ]; then sig=$1 ; fi
    for pid in $(my_ps | awk '!/awk/ && $0~pat { print $1 }' pat=${!#} ) ; do
        pname=$(my_ps | awk '$1~var { print $5 }' var=$pid )
        if ask "Kill process $pid <$pname> with signal $sig?"
            then kill $sig $pid
        fi
    done
}
```

function reboot()

```

{
    if ask "Are you sure you wish to reboot `hostname`?"
        then echo "rebooting"
    fi
}

function my_ip() # Get IP addresses.
{
    MY_IP=$(/sbin/ifconfig eth0 | awk '/inet/ { print $2 } ' | \
sed -e s/addr://)
    MY_ISP=$(/sbin/ifconfig eth0 | awk '/P-t-P/ { print $3 } ' | \
sed -e s/P-t-P://)
}

function ii() # Get current host related info.
{
    echo -e "\nYou are logged on ${RED}$HOST"
    echo -e "\nAdditionnal information:$NC " ; uname -a
    echo -e "\n${RED}Users logged on:$NC " ; w -h
    echo -e "\n${RED}Current date :$NC " ; date
    echo -e "\n${RED}Machine stats :$NC " ; uptime
    echo -e "\n${RED}Memory stats :$NC " ; free
    my_ip 2>&- ;
    echo -e "\n${RED}Local IP Address :$NC" ; echo ${MY_IP:-"Not connected"}
    echo -e "\n${RED}ISP Address :$NC" ; echo ${MY_ISP:-"Not connected"}
    echo -e "\n${RED}Open connections :$NC " ; netstat -pan --inet;
    echo
}

function repeat() # Repeat n times command.
{
    local i max
    max=$1; shift;
    for ((i=1; i <= max ; i++)); do # --> C-like syntax
        eval "$@";
    done
}

function ask() # See 'killps' for example of use.
{
    echo -n "$@" '[y/n] ' ; read ans
    case "$ans" in
        y*|Y*) return 0 ;;
        *) return 1 ;;
    esac
}

function corename() # Get name of app that created a corefile.
{
    for file ; do
        echo -n $file : ; gdb --core=$file --batch | head -1
    done
}

```