

### Bash Commands

uname -a	Show system and kernel
head -n1 /etc/issue	Show distribution
mount	Show mounted filesystems
date	Show system date
uptime	Show uptime
whoami	Show your username
man <i>command</i>	Show manual for <i>command</i>

### Bash Shortcuts

CTRL-c	Stop current command
CTRL-z	Sleep program
CTRL-a	Go to start of line
CTRL-e	Go to end of line
CTRL-u	Cut from start of line
CTRL-k	Cut to end of line
CTRL-r	Search history
!!	Repeat last command
! <i>abc</i>	Run last command starting with <i>abc</i>
! <i>abc</i> :p	Print last command starting with <i>abc</i>
!\$	Last argument of previous command
ALT-.	Last argument of previous command
!*	All arguments of previous command
^ <i>abc</i> ^123	Run previous command, replacing <i>abc</i> with 123

### Bash Variables

env	Show environment variables
echo \$NAME	Output value of \$NAME variable

### Bash Variables (cont)

export NAME=value	Set \$NAME to value
\$PATH	Executable search path
\$HOME	Home directory
\$SHELL	Current shell

### IO Redirection

cmd < file	Input of cmd from file
cmd1 <(cmd2)	Output of cmd2 as file input to cmd1
cmd > file	Standard output (stdout) of cmd to file
cmd > /dev/null	Discard stdout of cmd
cmd >> file	Append stdout to file
cmd 2> file	Error output (stderr) of cmd to file
cmd 1>&2	stdout to same place as stderr
cmd 2>&1	stderr to same place as stdout
cmd &> file	Every output of cmd to file
cmd refers to a command.	

### Pipes

cmd1   cmd2	stdout of cmd1 to cmd2
cmd1  & cmd2	stderr of cmd1 to cmd2

### Command Lists

cmd1 ; cmd2	Run cmd1 then cmd2
cmd1 && cmd2	Run cmd2 if cmd1 is successful
cmd1    cmd2	Run cmd2 if cmd1 is not successful
cmd &	Run cmd in a subshell

### Directory Operations

pwd	Show current directory
mkdir dir	Make directory dir
cd dir	Change directory to dir
cd ..	Go up a directory
ls	List files

### Is Options

-a	Show all (including hidden)
-R	Recursive list
-r	Reverse order
-t	Sort by last modified
-S	Sort by file size
-l	Long listing format
-1	One file per line
-m	Comma-separated output
-Q	Quoted output

### Search Files

grep pattern files	Search for pattern in files
grep -i	Case insensitive search
grep -r	Recursive search
grep -v	Inverted search
grep -o	Show matched part of file only
find /dir/ -name name*	Find files starting with name in dir



### Search Files (cont)

<code>find /dir/ -user name</code>	Find files owned by <i>name</i> in <i>dir</i>
<code>find /dir/ -mmin num</code>	Find files modified less than <i>num</i> minutes ago in <i>dir</i>
<code>whereis command</code>	Find binary / source / manual for <i>command</i>
<code>locate file</code>	Find <i>file</i> (quick search of system index)

### File Operations

<code>touch file1</code>	Create <i>file1</i>
<code>cat file1 file2</code>	Concatenate files and output
<code>less file1</code>	View and paginate <i>file1</i>
<code>file file1</code>	Get type of <i>file1</i>
<code>cp file1 file2</code>	Copy <i>file1</i> to <i>file2</i>
<code>mv file1 file2</code>	Move <i>file1</i> to <i>file2</i>
<code>rm file1</code>	Delete <i>file1</i>
<code>head file1</code>	Show first 10 lines of <i>file1</i>
<code>tail file1</code>	Show last 10 lines of <i>file1</i>
<code>tail -F file1</code>	Output last lines of <i>file1</i> as it changes

### Watch a Command

<code>watch -n 5 'ntpq -p'</code>	Issue the 'ntpq -p' command every 5 seconds and display output
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### Process Management

<code>ps</code>	Show snapshot of processes
<code>top</code>	Show real time processes
<code>kill pid</code>	Kill process with id <i>pid</i>
<code>pkill name</code>	Kill process with name <i>name</i>
<code>killall name</code>	Kill all processes with names beginning <i>name</i>

### Nano Shortcuts

#### Files

<code>Ctrl-R</code>	Read file
<code>Ctrl-O</code>	Save file
<code>Ctrl-X</code>	Close file

#### Cut and Paste

<code>ALT-A</code>	Start marking text
<code>CTRL-K</code>	Cut marked text or line
<code>CTRL-U</code>	Paste text

#### Navigate File

<code>ALT-/</code>	End of file
<code>CTRL-A</code>	Beginning of line
<code>CTRL-E</code>	End of line
<code>CTRL-C</code>	Show line number
<code>CTRL-_</code>	Go to line number

#### Search File

<code>CTRL-W</code>	Find
<code>ALT-W</code>	Find next
<code>CTRL-\</code>	Search and replace

More nano info at:  
<http://www.nano-editor.org/docs.php>

### Screen Shortcuts

<code>screen</code>	Start a screen session.
<code>screen -r</code>	Resume a screen session.

### Screen Shortcuts (cont)

<code>screen -list</code>	Show your current screen sessions.
<code>CTRL-A</code>	Activate commands for screen.
<code>CTRL-A c</code>	Create a new instance of terminal.
<code>CTRL-A n</code>	Go to the next instance of terminal.
<code>CTRL-A p</code>	Go to the previous instance of terminal.
<code>CTRL-A "</code>	Show current instances of terminals.
<code>CTRL-A A</code>	Rename the current instance.
More screen info at: <a href="http://www.gnu.org/software/screen/">http://www.gnu.org/software/screen/</a>	

### File Permissions

<code>chmod 775 file</code>	Change mode of <i>file</i> to 775
<code>chmod -R 600 folder</code>	Recursively chmod <i>folder</i> to 600
<code>chown user:group file</code>	Change <i>file</i> owner to <i>user</i> and group to <i>group</i>

### File Permission Numbers

First digit is owner permission, second is group and third is everyone.

Calculate permission digits by adding numbers below.

4	read (r)
2	write (w)
1	execute (x)



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