

Bash Commands	Bash Variables (cont)	Command Lists
uname -a Show system and kernel	export <i>NAME</i> = <i>value</i> Set \$ <i>NAME</i> to <i>value</i>	<i>cmd1</i> ; <i>cmd2</i> Run <i>cmd1</i> then <i>cmd2</i>
head -n1 /etc/issue Show distribution	\$PATH Executable search path	<i>cmd1</i> && <i>cmd2</i> Run <i>cmd2</i> if <i>cmd1</i> is successful
mount Show mounted fileystems	\$HOME Home directory	<i>cmd1</i> <i>cmd2</i> Run <i>cmd2</i> if <i>cmd1</i> is not successful
date Show system date	\$SHELL Current shell	<i>cmd</i> & Run <i>cmd</i> in a subshell
uptime Show uptime		
whoami Show your username		
man <i>command</i> Show manual for <i>command</i>		
Bash Shortcuts	IO Redirection	Directory Operations
CTRL-c Stop current command	<i>cmd</i> < <i>file</i> Input of <i>cmd</i> from <i>file</i>	pwd Show current directory
CTRL-z Sleep program	<i>cmd1</i> <(<i>cmd2</i>) Output of <i>cmd2</i> as file input to <i>cmd1</i>	mkdir <i>dir</i> Make directory <i>dir</i>
CTRL-a Go to start of line	<i>cmd</i> > <i>file</i> Standard output (stdout) of <i>cmd</i> to <i>file</i>	cd <i>dir</i> Change directory to <i>dir</i>
CTRL-e Go to end of line	<i>cmd</i> > /dev/null Discard stdout of <i>cmd</i>	cd .. Go up a directory
CTRL-u Cut from start of line	<i>cmd</i> >> <i>file</i> Append stdout to <i>file</i>	ls List files
CTRL-k Cut to end of line	<i>cmd</i> 2> <i>file</i> Error output (stderr) of <i>cmd</i> to <i>file</i>	
CTRL-r Search history	<i>cmd</i> 1>&2 stdio to same place as stderr	
!! Repeat last command	<i>cmd</i> 2>&1 stderr to same place as stdout	
!abc Run last command starting with <i>abc</i>	<i>cmd</i> &> <i>file</i> Every output of <i>cmd</i> to <i>file</i>	
!abc:p Print last command starting with <i>abc</i>	<i>cmd</i> refers to a command.	
!\$ Last argument of previous command		
ALT-. Last argument of previous command		
!* All arguments of previous command		
^abc^123 Run previous command, replacing <i>abc</i> with <i>123</i>		
Bash Variables	Pipes	Is Options
env Show environment variables	<i>cmd1</i> <i>cmd2</i> stdio of <i>cmd1</i> to <i>cmd2</i>	grep <i>pattern</i> <i>files</i> Search for <i>pattern</i> in <i>files</i>
echo \$ <i>NAME</i> Output value of \$ <i>NAME</i> variable	<i>cmd1</i> & <i>cmd2</i> stderr of <i>cmd1</i> to <i>cmd2</i>	grep -i Case insensitive search



By **Dave Child** (DaveChild)
cheatography.com/davechild/
aloneonahill.com

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Search Files (cont)	Process Management	Screen Shortcuts (cont)
find /dir/-user name Find files owned by name in dir	ps Show snapshot of processes	screen -list Show your current screen sessions.
find /dir/-mmin num Find files modified less than num minutes ago in dir	top Show real time processes	CTRL-A Activate commands for screen.
whereis command Find binary / source / manual for command	kill pid Kill process with id pid	CTRL-A c Create a new instance of terminal.
locate file Find file (quick search of system index)	pkill name Kill process with name name	CTRL-A n Go to the next instance of terminal.
	killall name Kill all processes with names beginning name	CTRL-A p Go to the previous instance of terminal.
File Operations	Nano Shortcuts	CTRL-A " Show current instances of terminals.
touch file1 Create file1	Files Ctrl-R Read file	CTRL-A A Rename the current instance.
cat file1 file2 Concatenate files and output	Ctrl-O Save file	More screen info at: http://www.gnu.org/software/screen/
less file1 View and paginate file1	Ctrl-X Close file	
file file1 Get type of file1	Cut and Paste ALT-A Start marking text	
cp file1 file2 Copy file1 to file2	CTRL-K Cut marked text or line	
mv file1 file2 Move file1 to file2	CTRL-U Paste text	
rm file1 Delete file1	Navigate File ALT-/ End of file	
head file1 Show first 10 lines of file1	CTRL-A Beginning of line	
tail file1 Show last 10 lines of file1	CTRL-E End of line	
tail -F file1 Output last lines of file1 as it changes	CTRL-C Show line number	
	CTRL-_ Go to line number	
Watch a Command	Search File	File Permissions
watch -n 5 'ntpq -p' Issue the 'ntpq -p' command every 5 seconds and display output	CTRL-W Find	chmod 775 file Change mode of file to 775
	ALT-W Find next	chmod -R 600 folder Recursively chmod folder to 600
	CTRL-\ Search and replace	chown user:group file Change file owner to user and group to group
	More nano info at: http://www.nano-editor.org/docs.php	
Screen Shortcuts		File Permission Numbers
screen		First digit is owner permission, second is group and third is everyone.
Start a screen session.		Calculate permission digits by adding numbers below.
screen -r		4 read (r)
		2 write (w)
		1 execute (x)



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