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Unix/Linux Command Reference

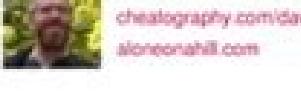
File Commands	System Info
<code>ls</code> - directory listing	<code>date</code> - show the current date and time
<code>ls -al</code> - formatted listing with hidden files	<code>cal</code> - show this month's calendar
<code>cd dir</code> - change directory to <code>dir</code>	<code>uptime</code> - show current uptime
<code>cd ..</code> - change to home	<code>w</code> - display who is online
<code>pwd</code> - show current directory	<code>whoami</code> - who you are logged in as
<code>mkdir dir</code> - create a directory <code>dir</code>	<code>finger user</code> - display information about user
<code>rm file</code> - delete file	<code>uname -a</code> - show kernel information
<code>rm -r dir</code> - delete directory <code>dir</code>	<code>cat /proc/cpinfo</code> - cpu information
<code>rm -f file</code> - force remove file	<code>cat /proc/meminfo</code> - memory information
<code>rm -rf dir</code> - force remove directory <code>dir</code> *	<code>man command</code> - show the manual for command
<code>cp file1 file2</code> - copy <code>file1</code> to <code>file2</code>	<code>df</code> - show disk usage
<code>cp -r dir1 dir2</code> - copy <code>dir1</code> to <code>dir2</code> ; create <code>dir2</code> if it doesn't exist.	<code>du</code> - show directory space usage
<code>mv file1 file2</code> - rename or move <code>file1</code> to <code>file2</code> if <code>file2</code> is an existing directory, moves <code>file1</code> into directory <code>file2</code>	<code>free</code> - show memory and swap usage
<code>ln -s file link</code> - create symbolic link <code>link</code> to <code>file</code>	<code>whereis app</code> - show possible locations of app
<code>touch file</code> - create or update <code>file</code>	<code>which app</code> - show which app will be run by default
<code>cat > file</code> - places standard input into file	
<code>more file</code> - output the contents of <code>file</code>	
<code>head -n file</code> - output the first 10 lines of <code>file</code>	
<code>tail -n file</code> - output the last 10 lines of <code>file</code>	
<code>tail -f file</code> - output the contents of <code>file</code> as it grows, starting with the last 10 lines	
Process Management	Compression
<code>ps</code> - display your currently active processes	<code>tar cf file.tar files</code> - create a tar named <code>file.tar</code> containing <code>files</code>
<code>top</code> - display all running processes	<code>tar xf file.tar</code> - extract the files from <code>file.tar</code>
<code>kill pid</code> - kill process id <code>pid</code>	<code>tar czf file.tar.gz files</code> - create a tar with Gzip compression
<code>killall proc</code> - kill all processes named <code>proc</code> *	<code>tar xzf file.tar.gz</code> - extract a tar using Gzip
<code>bg</code> - lists stopped or background jobs; resume a stopped job in the background	<code>tar cjt file.tar.bz2</code> - create a tar with Bzip2 compression
<code>fg</code> - brings the most recent job to foreground	<code>tar xjf file.tar.bz2</code> - extract a tar using Bzip2
<code>fg n</code> - brings job <code>n</code> to the foreground	<code>gzip file</code> - compresses <code>file</code> and renames it to <code>file.gz</code>
	<code>gzip -d file.gz</code> - decompresses <code>file.gz</code> back to <code>file</code>
File Permissions	Network
<code>chmod octal file</code> - change the permissions of <code>file</code> to <code>octal</code> , which can be found separately for user, group, and world by adding:	<code>ping host</code> - ping <code>host</code> and output results
<ul style="list-style-type: none"> • 4 - read (r) • 2 - write (w) • 1 - execute (x) 	<code>whois domain</code> - get whois information for <code>domain</code>
Examples:	<code>dig domain</code> - get DNS information for <code>domain</code>
<code>chmod 777 file</code> - read, write, execute for all	<code>dig +x host</code> - reverse lookup <code>host</code>
<code>chmod 755 file</code> - rwx for owner, rx for group and world	<code>wget file</code> - download <code>file</code>
For more options, see man chmod .	<code>wget -c file</code> - continue a stopped download
SSH	Installation
<code>ssh user@host</code> - connect to <code>host</code> as <code>user</code>	Install from source: <code>./configure</code>
<code>ssh -p port user@host</code> - connect to <code>host</code> on port <code>port</code> as <code>user</code>	<code>make</code>
<code>ssh-copy-id user@host</code> - add your key to <code>host</code> for <code>user</code> to enable a keyed or passwordless login	<code>make install</code>
Searching	Shortcuts
<code>grep pattern files</code> - search for <code>pattern</code> in <code>files</code>	<code>Ctrl+C</code> - halts the current command
<code>grep -r pattern dir</code> - search recursively for <code>pattern</code> in <code>dir</code>	<code>Ctrl+Z</code> - stops the current command, resume with <code>fg</code> in the foreground or <code>bg</code> in the background
<code>command grep pattern</code> - search for <code>pattern</code> in the output of <code>command</code>	<code>Ctrl+D</code> - log out of current session, similar to <code>exit</code>
<code>locate file</code> - find all instances of <code>file</code>	<code>Ctrl+W</code> - erases one word in the current line
	<code>Ctrl+U</code> - erases the whole line
	<code>!!</code> - repeats the last command
	<code>exit</code> - log out of current session
	* use with extreme caution.

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Anchors

Assertions Groups and Assertions

\A	Start of string, or start of line in multi-line pattern	\z	Lookahead assertion	\N	Any character except new line (\n)
\\$	End of string, or end of line in multi-line pattern	?{n}	Negative lookahead	(a b)	a or b
\Z	End of string	?{n,}	Lookbehind assertion	(...)	Group
\b	Word boundary	?{n,?l}	Negative lookbehind	(?...)	Passive (non-capturing) group
\B	Not word boundary	?{1}	Once-only Subexpression	[abc]	Range (a or b or c)
\w	Start of word	?{0,1}	Condition [if then]	(*abc)	Not (a or b or c)
\W	End of word	?{0,1} {1,2}	Condition [if then else]	[a-q]	Lower case letter from a to q
		#	Comment	[A-Q]	Upper case letter from A to Q
				[0-7]	Digit from 0 to 7
				x	Group/subpattern number "x"
Character Classes					
\c	Control character				Ranges are inclusive.
\s	White space				
\S	Not white space				
\d	Digit				
\D	Not digit				
\w	Word				
\W	Not word				
\x	Hexadecimal digit				
\O	Octal digit				
POSIX					
[:upper:]	Upper case letters				
[:lower:]	Lower case letters				
[:alpha:]	All letters				
[:alnum:]	Digits and letters				
[:digit:]	Digits				
[:xdigit:]	Hexadecimal digits				
[:punct:]	Punctuation				
[:blank:]	Space and tab				
[:space:]	Blank characters				
[:cntrl:]	Control characters				
[:graph:]	Printed characters				
[:print:]	Printed characters and spaces				
[:word:]	Digits, letters and underscore				
Common Metacharacters					
*	[-]	\$	
{	*	{	}		
*)		?		
^	>				
The escape character is usually \.					
Special Characters					
\n	New line				
\r	Carriage return				
\t	Tab				
\v	Vertical tab				
\f	Form feed				
\ooo	Octal character ooo				
\hhh	Hex character hhh				
					Some regex implementations use \ instead of \$.



Last updated 12th March, 2022
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Personal Budget			month of		
income	sources	amount	food	budget	spent
etc.			groceries	\$	\$

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EXPENSE CATEGORY
CAR & TRUCK EXPENSES
CHEMICALS
CUSTOM HOME IMPROVEMENTS
EMPLOYEE BENEFITS
FED PURCHASES
FEES/LICENSE
FREIGHT TRUCKING
GAMBLING/SLOTS
INSURANCE (OTHER THAN HOME)
ITEMS/ASSETS
LABOR
REPAIRS & MAINTENANCE
PLANT/REAL PURCHASES
TAXES
UTILITIES
VEHICLE/MACHINERY EQUIPMENT
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Download A framework for building robust Shiny apps, by ThinkR. - calculates the internal rate of return (discount rate that sets the NPV to zero) with specified dates=YIELD - returns the yield of a security based on maturity, face value, and interest rate=FV - calculates the future value of an investment with constant periodic payments and a constant interest rate=PV - calculates the present value of an investment=INTRATE - the interest rate on a fully invested security=IPMT - this function returns the interest payments on a debt security=PMT - this function returns the total payment (debt and interest) on a debt security=PRICE - calculates the price per \$100 face value of a periodic coupon bond=DB - calculates depreciation based on the fixed-declining balance method=DDB - calculates depreciation based on the double-declining balance method=SLN - calculates depreciation based on the straight-line methodConditional functions=IF - checks if a condition is met and returns a value if yes and if else=OR - checks if any conditions are met and returns only "TRUE" or "FALSE"=XOR - the "exclusive or" statement returns true if the number of TRUE statements is odd=AND - checks if all conditions are met and returns only "TRUE" or "FALSE"=NOT - changes "TRUE" to "FALSE", and "FALSE" to "TRUE"IF ANDIF Statement Between Two numbersDownload this free template for an IF statement between two numbers in Excel. 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Updated January 2019. NPV = $F / [(1 + r)^n]$ where, PV = Present Value, F = Future payment (cash flow), r = Discount rate, n = the number of periods in the future - calculates the net present value of cash flows based on a discount rate=XNPV - calculates the NPV of cash flows based on a discount rate and specific dates=IRR - this formula calculates the internal rate of return (discount rate that sets the NPV to zero)=XIRRXIRR vs IRRWhy use XIRR vs IRR. - rounds a number to the specified number of digits=ROUNDUPROUNDUP ExcelExcel ROUNDUP - a step by step guide on how to round up a number in Excel for financial analysts. Italian Translations - Traduzioni Italiane Japanese Translations - 日本語翻訳 Korean Translations - Persian Translations - ترجمه های فارسی Data import translated by Vahid Faraji Jobehar and Reza Mazloomi. If you want to become an expert on building financial models then you've come to the right place. 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