

UNIX I Cheat Sheet

by birdbysnow via cheatography.com/84488/cs/19963/

Shell Definition Command line interpreter program that functions as the default interface when you connect to a server over a network bash Default shell on Ubuntu and OSX. "Bourne-again shell." Terminal Prompt user>@host: path\$ user Logged in user name host Machine name path File system position

Symbol (e.g. \$ bash)

Commands				
About				
cmd -help	Full usage for emd			
whatis cmd	One-line explanation of cmd			
man cmd	Manual for cmd if available			
info cmd	Info about cmd; use if man is unavailable			
str [2x tab]	List commands with str prefix			
History				
history n	Show last n commands			
!!	Repeat last command			
!str	Repeat last command with str prefix			
up arrow	Scroll through history list			
Directing Output				
cmd >> file	Append output of cmd to file			
cmd > file	Overwrite file with output of cmd			
cmd1 cmd2	Direct output of cmd1 to cmd2			
<pre>Example \$ echo "My new note" >> notes.txt</pre>				

Manuals				
man cmd				
-k key	search for keyword key			
Navigate				
h	Help	q	Quit	
u	Up	d	Down	
g	Beginning	G	End	
Search				
/pattern	Start	esc-u	Stop	
n	Next	N	Prev	
Directory Hierarchy				
Absolute Path				
Route to desired dir. Always starts w slash or tilde, e.g.				

,, 5 -	, 1			
Relative Pa	ath			
From worki	ing dir. Never starts w slash, e.g.			
Shortcuts				
	Path of parent dir of current working dir			
~	Path of home dir, e.g.			
	\$ echo ~			
	<pre># user@host:/home/user/</pre>			
~user	Another user's home dir			
/	Root			
Environme	ntal Variables			
\$OLDPWD				

is made from working dir

Colon-delimited; use tr to replace, e.g.

\$ echo \$PATH | tr ":" "\n"

Parsing

/home/john/myfile.txt



\$ cat notes.txt

My new note

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\$PATH

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Ordered, colon-delimited list of dirs in search when call

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Directory Hierarchy (cont)

Home Directory

Home dir (e.g. /home/john) is never in path, but its subdirs may be if working dir is a subdir of home.

SPYTHONPATH

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Useful Comm	ands	
pwd		Print working dir
cd dir		Move working dir to dir
	-	To previous wd (i.e. \$OLDPATH)
ls dir		List dir contents
	-1	Get a long list - permissions, links count,
	-F	Indicate file type
		* exe
		/ dir
	-b	Print special chars, including -
		& ' ; () < > space tab
	-a	All including hidden files with . prefix
	-1	All output in one column

Recursive; include subdirs and contents

Reverse sort order

Sort by most recent modified

Dirs only

find dir opts Search dir and its subdirs for file specified by opts expression, e.g.

\$ find . -name 'chap*'

\$ find . -mtime -2

\$ find . -user john

Account

Configuration

Update hidden programs run at login/shell start.

.bashrc

Run at bash login before .profile .bash_profile

.profile Run at login by most UINX shells

Example

Add lib to \$PYTHONPATH in ~/.bashrc with

export PYTHONPATH=/home/john/module/lib\$PYTHONPATH

Useful Commands

ssh user@host	connect to host as user
whoami	who you are logged in as
passwd	set password
exit	logout of session and close terminal

Permissions

Useful Commands

chmod

\$ chmod [ugoa][+-=][rwx], ..., [path]

Groups

User owner Other/system

ΑII

Add

Remove

Set Explicit

Mode



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Permis	Permissions (cont)							
	r,	4	Read			x,	1	Execute file
	w,	2	Write			x,	1	Access dir
Octal								
		0					4	r
X				5	r-x			
		2	-W-				6	rw-
		3	-MX				7	rwx

Examples

Both the following examples grant all permissions to the owner of bin and read + execute permissions to the owner's group and others.

- \$ chmod u=rwx,go=rx /home/john/bin
- \$ chmod 755 /home/john/bin



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