

bash cheat sheet



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<https://github.com/obfusc/bash-cheatsheet>

getting help

help <builtin>
man <command>

history

history ^R
!! !foo

special characters

~`#\$&*()\\|[]{};''/?!

options

set shopt

quoting

cmd "one argument"
echo 'single-quoted: "hi!" ...'
echo "double-quoted: '\\$foo=\$foo'"

streams

cat head tail
awk grep sed tr
rev shuf sort uniq
seq wc
column cut paste tee

redirecting I/O

command > file
command >> append
command 2> errors
command < input-file
command >&2 # to stderr
command <<<"this is input"
command >/dev/null # bye

processes & signals

in-background &
bg fg jobs ^Z
sleep wait kill ps
nohup trap pgrep pkill

exit codes (\$?)

0 success >0 failure

files and directories

ls -hl --color=auto
cd pwd pushd popd
cp ln mv rm
mkdir rmdir rename
chown chmod touch umask
du file stat test
readlink which
basename dirname

globbing

ls ?[a-z]*
mv foo-{bar,baz}

system

free top
su sudo

arrays

my_ary=(foo bar "a b c")
echo "\${my_ary[2]}"
command "\${my_ary[@]}"

special variables # quote "\$@" !
\$? \$! \$# \$@ \$* \$1 \$2 ...
\$PATH \$HOME \$LINES \$COLUMNS
\$PS1 shift

find & xargs

find /foo /bar -type d \
-print0 | sort -z | \
xargs -0 rmdir

cmd1 | cmd2 | cmd3 pipes
echo "\${PIPESTATUS[@]}"
mkfifo a b; cmd1 <a>b; cmd2 a

miscellaneous

mktemp renice
printf iconv strings
id groups who
crontab time watch
tar zip
whiptail zenity ruby
perl python
less nano vim
ack git tree
diff patch
cal date
mutt rsync screen
xdg-open

arithmetic

((i = 99, j = i * i)) bc
echo \$((i == 99 ? 42 : 37))

locales

locale
\$LC_*

printing

lpr lpq lprm lpstat

filesystems

mount fsck
df dd

networking

hostname
ifconfig
ping
curl wget
nc

key bindings

^C SIGTERM ^D EOF
^A home ^E end ^L clear
TAB complete UP/DOWN history

scripting

if test -e file; then echo EXISTS; else echo NOPE; fi
if [-e x]; then A; elif [-e y]; then B; else C; fi
while read -r; do echo "[REPLY]"; done
for x in "\$@"; do echo "[x]"; done
for ((i=0; i<10; ++i)); do echo "\$i"; done
case "\$x" in foo*) echo Y;; *) echo N;; esac
select x in A B C; do echo \$x; [-z "\$x"] || break; done

[["\$x" =~ ^foo]]
cmd1 && cmd2 cmd || true !false
(echo "subshell") { cmd1; cmd2; cmd3; }
eval "\$hopefully_not_evil_code"
function
say_hi () { local you="\$1"; echo "Hi \$you"; }

test [
getopts
source
exit
return