bash cheat sheet



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getting help

help <builtin>
man <command>

history

history !! !foo

special characters opt

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

options

set shopt

quoting

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

streams

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

miscellaneous

id groups who mktemp renice strings printf iconv crontab time watch tar zip whiptail zenity perl python ruby less nano vim mutt rsync screen diff git ack

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

files and directories

ls -hl --color=auto

cd baga bhaua bwd Ср ln mν mkdir rmdir rename chown chmod umask du stat touch file test which basename dirname

command substitution

cmd1 "\$(cmd2 ...)"
diff <(cmd1) <(cmd2)</pre>

shell scripts

#!/bin/bash
set -e
...

processes & signals

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

exit codes (\$?)

0 success >0 failure

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[@]}"

find

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

variables

foo="some value"

echo \$foo
echo "\$foo"
echo "\${foo:0:4}" # "some"
echo \${foo:+alternative}
echo \${foo:-default}
: \${foo:=asigned_default}
echo \${#foo} # length
echo \${foo#prefix} # rm prefix
echo \${foo%.ext} # rm suffix
echo \${foo/some/replaced}

declare export local unset env

special variables

\$? \$! \$@ \$1 \$2 ... \$PATH \$HOME \$LINES \$COLUMNS \$PS1 shift

arithmetic

((i = 99, j = i * i)) echo ((i = 99, j = i * i))

printing

lpr lpg lprm lpstat

filesystems

mount fsck df dd

locales

locale

\$LC_*

networking

hostname ifconfig ping curl wget nc

key bindings

scripting