

## # Miscellaneous

((a + 200))

# Add 200 to \$a

\$((RANDOM%=200)) # Random number 0..200

	Redirection
Increating commands	Redirection
Inspecting commands  command -V cd  #=> "cd is a function/alias/whatever"	python hello.py > output.txt # stdout to (file) python hello.py >> output.txt # stdout to (file), append python hello.py 2> error.log # stderr to (file) python hello.py 2>&1 # stderr to stdout python hello.py 2>/dev/null # stderr to (null)
Trap errors	python hello.py &>/dev/null # stdout and stderr to (null)
trap 'echo Error at about \$LINENO' ERR	<pre>python hello.py &lt; foo.txt # feed foo.txt to stdin for python</pre>
or	Case/switch
<pre>traperr() {   echo "ERROR: \${BASH_SOURCE[1]} at about \${BASH_LINENO[0]}" } set -o errtrace trap traperr ERR</pre>	<pre>case "\$1" in   start   up)   vagrant up   ;;  *)   echo "Usage: \$0 {start stop ssh}"   ;;</pre>
Source relative	esac
source "\${0%/*}//share/foo.sh"	printf
Directory of script	printf "Hello %s, I'm %s" Sven Olga #=> "Hello Sven, I'm Olga
DIR="\${0%/*}"	<pre>printf "1 + 1 = %d" 2 #=&gt; "1 + 1 = 2"</pre>
Getting options	<pre>printf "This is how you print a float: %f" 2 #=&gt; "This is how you print a float: 2.000000"</pre>
<pre>while [[ "\$1" =~ ^- &amp;&amp; ! "\$1" == "" ]]; do case \$1 in   -V  version )   echo \$version</pre>	Heredoc
exit ;; -s  string ) shift; string=\$1	cat < <end end<="" hello="" td="" world=""></end>
;; -f  flag ) flag=1	Reading input
esac; shift; done if [[ "\$1" == '' ]]; then shift; fi	echo -n "Proceed? [y/n]: "

read ans echo \$ans

Exit status of last task

PID of shell

PID of last background task

Filename of the shell script

read -n 1 ans

Go to previous directory

pwd # /home/user/foo

pwd # /home/user/foo

Grep check

Q

pwd # /home/user/foo/bar

if grep -q 'foo' ~/.bash\_history; then

echo "You appear to have typed 'foo' in the past"

Top cheatsheets

# Just one character

Subshells

(cd somedir; echo "I'm now in \$PWD")

pwd # still in first directory

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Special variables

See Special parameters.

Check for command's result

if ping -c 1 google.com; then

Bash-hackers wiki (bash-hackers.org)

Bash Guide (mywiki.wooledge.org)

Learn bash in y minutes (learnxinyminutes.com)

Shell vars (bash-hackers.org)

ShellCheck (shellcheck.net)

echo "It appears you have a working internet connection"

\$?

\$!

\$\$

\$0

# Also see

Cron	Homebrew
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httpie	adb (Android Debug
cheatsheet •	Bridge) cheatsheet
composer	Fish shell
cheatsheet •	cheatsheet •

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