CLI QUICK REFERENCE CARD

Frequently used CLI commands – Version v1.2 July 2014

Basic Operations

`cd` *path* . . . . . . change directory

possible values for *path*

..	move one folder up
–	change to last visited directory
⟨None⟩	change to homedir (∼)

`pushd` *dir* . . . . save *dir* to index

`popd` . . . . switch to last saved *dir* from index

`mkdir` *dir* . . . . create new *directory* in (current) path

Movements

For ⟨esc⟩ you can use either ⟨esc⟩ and ⟨alt⟩-key

`ˆa` `ˆe` . . . . jump to begin / end of the line

⟨esc f⟩ `/` ⟨esc b⟩
    jump one word forward/backward

`ˆs` `ˆc` . . . . pause / cancel current command

`ˆq` . . . . resume previous paused process

`ˆy` . . . . paste most recently cut out text

⟨esc d⟩ `/` ⟨esc ←⟩
    cut one word forward/backward

`ˆw` . . . . cut text backward until space

`ˆu` `ˆk` . . . . cut to beginning/end of the line

`ˆ#` . . . . prepend hashtag on command, then jump to next line (... and reedit later)

`ˆxe` . . . . edit command in default $EDITOR

History

Clearing your entire history event line: `history -c`

Shortcuts

`ˆp` . . . . fetch the previous command from the history list

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`ˆr` . . . . search history backward (incremental search)

⟨esc - ⟩ . . . . running last executed command

⟨esc p⟩ . . . . search backward using non-incremental search

⟨esc n⟩ . . . . search forward using non-incremental search

⟨esc <⟩ . . . . move to the first line in the history

⟨esc >⟩ . . . . move to the end of the history list (current entry)

History-Commands

Example command is: `cd foo/bar`

`!!` . . . . runs previous executed command (also known as 'bang bang')

⇒   `sudo !!`: `sudo cd foo/bar`

`!$` / ⟨esc . ⟩ . repeats last *arg* of prev command

`!n` / `!-n` . . . . executes command *n*/*n*th last command

`!str` / `!?str?` runs last executed command, starting with/containing string or character *str* (ending ? is optional)

⇒   `!cd`: `cd foo/bar`

⇒   `!?sudo?`: `sudo cd foo/bar`

`!!:des` . . . . appends first/last/specific/all *arg*'s of last command (trailing :*des* refers to below listed designators)

⇒   `echo !cd:q`: `echo 'cd foo/bar'`

`!#` . . . . refers to the entire command line typed so far

Designators

0	the zeroth (first) word in a line (usually command name)
n	the *n*th word in a line
ˆ	the first *arg* (the second word) in a line
$	the last argument *arg* in a line
%	the word *str* matched by the most recent !?*str*? search
m-n	a range of words from *m* to *n* (-*n* is synonymous with 0-*n*)

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*	all *arg*'s
*m**	synonymous with *m*-$
m-	from *arg m* to end, ommitting last word

Substitutions & Replacements

`ˆstr₁ˆstr₂ˆ`... quick substitution. Repeats the last command, replacing str_1 with str_2

mod `s/old/new/`
    substitutes new for old (for meaning of *mod*ifiers see below)

Modifiers

h	removes a trailing pathname component, leaving the head
t	removes all leading pathname components, leaving the tail (filename in path)
r	removes a trailing suffix of the form .xxx, leaving the basename
e	removes all but the trailing suffix
p	prints the resulting command but does not execute it
q	quotes the substituted words, escaping further substitutions
m	quotes the substituted words, breaking them into words at blanks and newlines
&	repeats the previous substitution
g	causes s/old/new/ or & to be applied over the entire event line
G	apply the following 's' modifier just once to each word in the event line.

Bashrc

The prompt of your `shell` can be adjusted throug changing PS1=<expr> in your ~.bashrc

History Modifying Settings

Append `export <setting>=<value>` to your ∼/.bashrc

```
HISTFILE.....  if set to /dev/null history file is re-
               jected (Default: ∼/.bash_history)
HISTFILESIZE
               controls how many history commands
               to keep in HISTFILE (Default: 500)
HISTSIZE.....  controls how many history commands
               to keep in the history list of current
               session (Default: 500)
HISTCONTROL
               modality of how to save commands on
               the history list.
  --ignorespace
               if the list of values includes ignores-
               pace, lines which begin with a space
               character are not saved in the history
               list.
  --ignoredups
               a value of ignoredups causes lines match-
               ing the previous history entry to not be
               saved.
  --ignoreboth
               a value of ignoreboth is shorthand for
               ignorespace and ignoredups.
  --erasedups
               a value of erasedups causes all previ-
               ous lines matching the current line to
               be removed from the history list before
               that line is saved.
HISTIGNORE
               controls which commands to ignore and
               not save to the history list.
```

Shopt Option

Shopt options can be set by a `shopt -s option` and
can be unset by a `shopt -u option` shell command.

```
histappend ..  setting the variable appends current ses-
               sion history to HISTFILE. Unsetting
               overwrites the file each time
histreedit ..  if set, puts a failed history substitu-
               tion back on the command line for re-
               editing
histverify ..  if set, puts the command to be exe-
               cuted after a substitution on command
               line as if you had typed it
```