

**SHELL QUICK REFERENCE CARD**  
Frequently used SHELL commands – Version v1.2 August 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

- `^a ^e` ..... jump to begin / end of the line
- `<esc f> / <esc b>`            jump one word forward/backward
- `^s ^c` ..... pause / cancel current command
- `^q` ..... resume previous paused process
- `^y` ..... paste most recently cut out text
- `<esc d> / <esc ←>`            cut one word forward/backward
- `^w` ..... cut text backward until space
- `^u ^k` ..... cut to beginning/end of the line
- `^#` ..... prepend hashtag on command, then jump to next line (... and reedit later)
- `^xe` ..... edit command in default \$EDITOR

**History**

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

**Shortcuts**

`^p` ..... fetch the previous command from the history list

- `^r` ..... 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/nth* 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
- `^`            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*)
- `*`            all *arg*’s
- m\**            synonymous with *m-\$*
- m-*            from *arg m* to end, omitting last word

**Substitutions & Replacements**

`^str1^str2^...` quick substitution. Repeats the last command, replacing *str1* with *str2*

*mod s/old/new/*  
substitutes new for old (for meaning of *modifiers* 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 through changing `PS1=<expr>` in your `~.bashrc`

## History Modifying Settings

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Append **export** `<setting>=<value>` to your `~/bashrc`

**HISTFILE**..... if set to `/dev/null` history file is rejected (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 `ignorespace`, lines which begin with a space character are not saved in the history list.

**--ignoredups**  
a value of `ignoredups` causes lines matching 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 previous 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

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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 session history to **HISTFILE**. Unsetting overwrites the file each time

**histreedit** .. if set, puts a failed history substitution back on the command line for re-editing

**histverify** .. if set, puts the command to be executed after a substitution on command line as if you had typed it

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[github.com/emzap79/QRCs](https://github.com/emzap79/QRCs)

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This TeXfile is based on Gabriel B. Burcas © `git-qrc.tex` and has then been modified to my own requirements, with permission!