

## VIM Quick Reference Card

### Basic movement

h l k j ..... character left, right, line up, down  
b w ..... word/token left, right  
ge e ..... end of word/token left, right  
{ } ..... beginning of previous, next paragraph  
( ) ..... beginning of previous, next sentence  
0 gm ..... beginning, middle of line  
^ \$ ..... first, last character of line  
nG ngg ..... line *n*, default the last, first  
n% ..... percentage *n* of the file (*n must be provided*)  
n| ..... column *n* of current line  
% ..... match of next brace, bracket, comment, #define  
nH nL ..... line *n* from start, bottom of window  
M ..... middle line of window

### Insertion & replace → insert mode

i a ..... insert before, after cursor  
I A ..... insert at beginning, end of line  
gI ..... insert text in first column  
o O ..... open a new line below, above the current line  
rc ..... replace character under cursor with *c*  
grc ..... like *r*, but without affecting layout  
R ..... replace characters starting at the cursor  
gR ..... like *R*, but without affecting layout  
cm ..... change text of movement command *m*  
cc or S ..... change current line  
C ..... change to the end of line  
s ..... change one character and insert  
~ ..... switch case and advance cursor  
g~m ..... switch case of movement command *m*  
gum gUm ... lowercase, uppercase text of movement *m*  
<*m* >*m* ..... shift left, right text of movement *m*  
n<< n>> ..... shift *n* lines left, right

### Deletion

x X ..... delete character under, before cursor  
dm ..... delete text of movement command *m*  
dd D ..... delete current line, to the end of line  
J gJ ..... join current line with next, without space  
:rd↔ ..... delete range *r* lines  
:rdx↔ ..... delete range *r* lines into register *x*

### Insert mode

^Vc ..... insert char *c* literally  
^Vn ..... insert decimal value of character  
^A ..... insert previously inserted text  
^@ ..... same as ^A and stop insert → command mode  
^Rx ..... insert content of register *x*  
^N ^P ..... text completion before, after cursor  
^W ..... delete word before cursor  
^U ..... delete all inserted character in current line  
^D ..... shift left one shift width  
^K c<sub>1</sub> c<sub>2</sub> ..... enter digraph  
<esc> ..... abandon edition → command mode

### Copying

"x ..... use register *x* for next delete, yank, put  
:reg↔ ..... show the content of all registers  
:reg x↔ ..... show the content of registers *x*  
ym ..... yank the text of movement command *m*  
yy or Y ..... yank current line into register  
p P ..... put register after, before cursor position  
]p [p ..... like *p*, *P* with indent adjusted  
gp gP ..... like *p*, *P* leaving cursor after new text

### Advanced insertion

g?m ..... perform rot13 encoding on movement *m*  
n^A n^X ..... +*n*, -*n* to number under cursor  
gqm ..... format lines of movement *m* to fixed width  
:rce w↔ ..... center lines in range *r* to width *w*  
:rle i↔ ..... left align lines in range *r* with indent *i*  
:rri w↔ ..... right align lines in range *r* to width *w*  
!mc↔ ..... filter lines of movement *m* through command *c*  
n!!c↔ ..... filter *n* lines through command *c*  
:r!c↔ ..... filter range *r* lines through command *c*

### Visual mode

v V ^V .. start/stop highlighting characters, lines, block  
o ... exchange cursor position with start of highlighting  
gv ..... start highlighting on previous visual area  
aw as ap ..... select a word, a sentence, a paragraph  
ab aB ..... select a block ( ), a block { }

### Undoing & repeating commands

u U ..... undo last command, restore last changed line  
. ^R ..... repeat last changes, redo last undo  
n. .... repeat last changes with count replaced by *n*  
qc qC ... record, append typed characters in register *c*  
q ..... stop recording  
@c ..... execute the content of register *c*  
@@ ..... repeat previous @ command  
:@c↔ ..... execute register *c* as an *Ex* command  
:rg/p/c↔ ..... execute *Ex* command *c* on range *r*  
[ where pattern *p* matches

### Complex movement

- + ..... line up/down on first non-blank character  
B W ..... space-separated word left, right  
gE E ..... end of space-separated word left, right  
n\_ ..... down *n* - 1 line on first non-blank character  
g0 ..... beginning of screen line  
g^ g\$ ..... first, last character of screen line  
gk gj ..... screen line up, down  
fc Fc ..... next, previous occurrence of character *c*  
tc Tc ..... before next, previous occurrence of *c*  
; , ..... repeat last fFtT, in opposite direction  
[[ ]] ..... start of section backward, forward  
[] ][ ..... end of section backward, forward  
[( )] ..... unclosed (, ) backward, forward  
[{ ]} ..... unclosed {, } backward, forward  
[m ]m ... start, end of backward, forward java method  
[# ]# ..... unclosed #if, #else, #endif backward, forward  
[\* ]\* ..... start, end of /\* \*/ backward, forward

### Search & substitution

/s↔ ?s↔ ..... search forward, backward for *s*  
/s/o↔ ?s?o↔ ..... search fwd, bwd for *s* with offset *o*  
n or /↔ ..... repeat forward last search  
N or ?↔ ..... repeat backward last search  
# \* ... search backward, forward for word under cursor  
g# g\* ..... same, but also find partial matches  
gd gD ... local, global definition of symbol under cursor  
:rs/f/t/x↔ ..... substitute *f* by *t* in range *r*  
[ *x* : g—all occurrences, c—confirm changes  
:rs x↔ ..... repeat substitution with new *r* & *x*

### Special characters in search patterns

`.` `^` ..... any single character, start of line  
`\<` `\>` ..... start, end of word  
`[c1..c2]` ..... a single character in range *c*<sub>1</sub>..*c*<sub>2</sub>  
`[^c1..c2]` ..... a single character not in range  
`\i` `\I` ..... an identifier, excluding digits  
`\k` `\K` ..... a keyword, excluding digits  
`\f` `\F` ..... a file name, excluding digits  
`\p` `\P` ..... a printable character, excluding digits  
`\s` `\S` ..... a white space, a non-white space  
`\e` `\t` `\r` `\b` ..... `<esc>`, `<tab>`, `<↵>`, `<←>`  
`\= *` `\+` ..... match 0..1, 0..∞, 1..∞ of preceding atoms  
`\|` ..... separate two branches ( $\equiv$  *or*)  
`\( \)` ..... group patterns into an atom

### Offsets in search commands

*n* *or* *+n* ..... *n* line downward in column 1  
*-n* ..... *n* line upward in column 1  
*e+n* *e-n* ..... *n* characters right, left to end of match  
*s+n* *s-n* ..... *n* characters right, left to start of match  
*;sc* ..... execute search command *sc* next

### Marks and motions

*mc* ..... mark current position with mark *c* ∈ [*a*..*Z*]  
`'c` `'C` ..... go to mark *c* in current, *C* in any file  
`'0`..`'9` ..... go to last exit position  
`''` `'"` ..... go to position before jump, at last edit  
`'[` `']` ..... go to start, end of previously operated text  
`:marks`↵ ..... print the active marks list  
`:jumps`↵ ..... print the jump list  
*n*^`0` ..... go to *n*<sup>th</sup> older position in jump list  
*n*^`I` ..... go to *n*<sup>th</sup> newer position in jump list

### Key mapping & abbreviations

`:map` *c* *e*↵ ..... map *c* ↦ *e* in normal & visual mode  
`:map!` *c* *e*↵ ..... map *c* ↦ *e* in insert & cmd-line mode  
`:unmap` *c*↵ `:unmap!` *c*↵ ..... remove mapping *c*  
`:mk` *f*↵ ..... write current mappings, settings... to file *f*  
`:ab` *c* *e*↵ ..... add abbreviation for *c* ↦ *e*  
`:ab` *c*↵ ..... show abbreviations starting with *c*  
`:una` *c*↵ ..... remove abbreviation *c*

### Tags

`:ta` *t*↵ ..... jump to tag *t*  
`:nta`↵ ..... jump to *n*<sup>th</sup> newer tag in list  
`^` `^T` ..... jump to the tag under cursor, return from tag  
`:ts` *t*↵ ..... list matching tags and select one for jump  
`:tj` *t*↵ ..... jump to tag or select one if multiple matches  
`:tags`↵ ..... print tag list  
`:n^T`↵ ..... jump back to *n*<sup>th</sup> older tag in tag list  
`:npo`↵ ..... jump back from *n*<sup>th</sup> older tag in tag list  
`:tl`↵ ..... jump to last matching tag  
`^W`{ `:pt` *t*↵ ..... preview tag under cursor, tag *t*  
`^W`] ..... split window and show tag under cursor  
`^Wz` *or* `:pc`↵ ..... close tag preview window

### Scrolling & multi-windowing

`^E` `^Y` ..... scroll line up, down  
`^D` `^U` ..... scroll half a page up, down  
`^F` `^B` ..... scroll page up, down  
`zt` *or* `z`↵ ..... set current line at top of window  
`zz` *or* `z` ..... set current line at center of window  
`zb` *or* `z-` ..... set current line at bottom of window  
`zh` `zl` ..... scroll one character to the right, left  
`zH` `zL` ..... scroll half a screen to the right, left  
`^Ws` *or* `:split`↵ ..... split window in two  
`^Wn` *or* `:new`↵ ..... create new empty window  
`^Wo` *or* `:on`↵ ..... make current window one on screen  
`^Wj` `^Wk` ..... move to window below, above  
`^Ww` `^W^W` ..... move to window below, above (wrap)

### Ex commands (↵)

`:e` *f* ..... edit file *f*, unless changes have been made  
`:e!` *f* ..... edit file *f* always (by default reload current)  
`:wn` `:wN` ..... write file and edit next, previous one  
`:n` `:N` ..... edit next, previous file in list  
`:rw` ..... write range *r* to current file  
`:rw` *f* ..... write range *r* to file *f*  
`:rw>>` *f* ..... append range *r* to file *f*  
`:q` `:q!` ..... quit & confirm, quit and discard changes  
`:wq` *or* `:x` *or* `ZZ` ..... write to current file and exit  
`<up>` `<down>` ..... recall commands starting with current  
`:r` *f* ..... insert content of file *f* below cursor  
`:r!` *c* ..... insert output of command *c* below cursor

### Ex ranges

`,` `;` ..... separates two lines numbers, set to first line  
*n* ..... an absolute line number *n*  
`.` `$` ..... the current line, the last line in file  
`%` `*` ..... entire file, visual area  
`'t` ..... position of mark *t*  
`/p/` `?p?` ..... the next, previous line where *p* matches  
`+n` `-n` ..... `+n`, `-n` to the preceding line number

### Miscellaneous

`:sh`↵ `:!c`↵ ..... start shell, execute command *c* in shell  
`K` ..... lookup keyword under cursor with `man`  
`:make`↵ ..... start `make`, read errors and jump to first  
`:cn`↵ `:cp`↵ ..... display the next, previous error  
`:cl`↵ `:cf`↵ ..... list all errors, read errors from file  
`^L` `^G` ..... redraw screen, show filename and position  
`g^G` ..... show cursor column, line, and character position  
`ga` ..... show ASCII value of character under cursor  
`gf` ..... open file which filename is under cursor  
`:redir`>*f*↵ ..... redirect output to file *f*