

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
O ^ \$ beginning, 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

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 ^Vn insert char *c* literally, decimal value *n*
^A insert previously inserted text
^@ same as ^A and stop insert → command mode
^Rx ^R Rx insert content of register *x*, literally

^N ^P text completion before, after cursor
^W delete word before cursor
^U delete all inserted character in current line
^D ^T shift left, right one shift width
^Kc₁c₂ or c₁↔c₂ enter digraph {*c*₁, *c*₂}
^Oc execute *c* in temporary command mode
^X^E ^X^Y scroll up, down
<esc> or ^[..... 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

Standard mode formatting/filtering

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*
~ 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

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 { }
n> n< = indent/unindent *n* levels, reindent

Undoing, repeating & registers

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
gO gm beginning, middle 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 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, end of line
`\<` `\>` start, end of word
`[c1-c2]` a single character in range *c₁*..*c₂*
`[^c1-c2]` a single character not in range
`\i` `\k` `\I` `\K` an identifier, keyword; excl. digits
`\f` `\p` `\F` `\P` .. a file name, printable char.; excl. 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
`\&` `\n` the whole matched pattern, *nth* () group
`\u` `\l` next character made upper, lowercase
`\c` `\C` ignore, match case on next pattern

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 *nth* older position in jump list
n^I go to *nth* newer position in jump list

Tags

:ta t↵ jump to tag *t*
:nta↵ jump to *nth* 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

:npo↵ *:n^T*↵ jump back from, to *nth* older tag
: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

Multiple files / buffers (↵)

:tab ball show buffer tablist
:buffers show list of buffers
:buffer n switch to buffer *n*
:badd f.txt load file into new buffer
:bdelete n delete buffer *n* (also with filename)
:bnext :bprev :bfirst :blast move between buffers

Scrolling & multi-windowing

^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 *^WW* move to window below, above (wrap)
^Wn+ *^Wn-* ... Increase/decrease window size by *n* lines

Misc Ex commands (↵)

:help holy-grail show all Ex commands
:e f edit file *f*, unless changes have been made
:e! f edit file *f* always (by default reload current)
: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 and confirm, quit and discard changes
:wq or :x or ZZ write to current file and exit
:r f insert content of file *f* below cursor
:r! c insert output of command *c* below cursor
:args display the argument list
:rc a *:rm a* copy, move range *r* below line *a*

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

Folding

zfm create fold of movement *m*
:rfo create fold for range *r*
zd zE delete fold at cursor, all in window
zo zc z0 zC open, close one fold; recursively
[z]z move to start, end of current open fold
zj zk move down, up to start, end of next fold

Spell checking

:set spell spelllang=en_us↵ ... activate spellcheck
]s next misspelled word
zg add good word
zw mark bad word
z= suggest corrections

Miscellaneous

:sh↵ *:!c*↵ ... start shell, execute command *c* in shell
K run **keywordprg** (man) on word under cursor
:make↵ run compiler, jump to first error
:cope↵ navigate errors from make
:cn↵ *:cp*↵ display the next, previous error
:cl↵ *:cf*↵ list all errors, read errors from file
^L redraw screen
^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*
:mkview [f] save view configuration [to file *f*]
:loadview [f] load view configuration [from file *f*]