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 $n$gg	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
gr$c$	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
gu$m$ 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$\hookleftarrow$	delete range r lines
:rd$x\hookleftarrow$	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
^Kc_1c_2 *or* c_1←c_2	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$\hookleftarrow$	show the content of all registers
:reg $x\hookleftarrow$	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
gq$m$	format lines of movement m to fixed width
:$r$ce $w\hookleftarrow$	center lines in range r to width w
:$r$le $i\hookleftarrow$	left align lines in range r with indent i
:$r$ri $w\hookleftarrow$	right align lines in range r to width w
!$mc\hookleftarrow$	filter lines of movement m through command c
n!!$c\hookleftarrow$	filter n lines through command c
:r!$c\hookleftarrow$	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
:@$c\hookleftarrow$	execute register c as an *Ex* command
:rg/p/$c\hookleftarrow$	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 occurence of character c
tc Tc	before next, previous occurence 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

/$s\hookleftarrow$?$s\hookleftarrow$	search forward, backward for s
/s/$o\hookleftarrow$?s?$o\hookleftarrow$	search fwd, bwd for s with offset o
n *or* /$\hookleftarrow$	repeat forward last search
N *or* ?$\hookleftarrow$	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/$x\hookleftarrow$	substitute f by t in range r ⌊ x : g—all occurrences, c—confirm changes
:rs $x\hookleftarrow$	repeat substitution with new r & x

Special characters in search patterns

. ^ $	any single character, start, end of line
\< \>	start, end of word
[c_1..c_2]	a single character in range c_1..c_2
[^c_1..c_2]	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 (≡ *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

m*c*	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^O	go to n^{th} older position in jump list
n^I	go to n^{th} 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*
:*n*ta↩	jump to n^{th} 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*po↩ :*n*^T↩	jump back from, to n^{th} 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

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
:*r*w	write range *r* to current file
:*r*w *f*	write range *r* to file *f*
:*r*w≫*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
⟨*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
:all	open a window for each file in the argument list
:args	display the argument list

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*
^@ ^K ^_ \	unused keys, available for mapping