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
n`G` *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`
n`H` *n*`L` ..... 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
`r`*c* ..... 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
`c`*m* ..... 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* `gU`*m* ... 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
`d`*m* ..... 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
`:r`*d*↩ ..... delete range *r* lines
`:r`*dx*↩ ..... delete range *r* lines into register *x*

Insert mode

`^V`*c* `^V`*n* ..... insert char *c* literally, decimal value *n*
`^A` ..... insert previously inserted text
`^@` ..... same as `^A` and stop insert → command mode
`^R`*x* `^R^R`*x* ..... 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
`^K`*c*$_1$*c*$_2$ *or* *c*$_1$←*c*$_2$ ..... enter digraph $\{c_1, c_2\}$
`^O`*c* ..... 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*
`y`*m* ..... 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*↩ ..... center lines in range *r* to width *w*
`:r le` *i*↩ ..... left align lines in range *r* with indent *i*
`:r ri` *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 & 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*
`q`*c* `q`*C* .... 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
`:r g/`*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
`f`*c* `F`*c* ..... next, previous occurence of character *c*
`t`*c* `T`*c* ..... 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 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
`:r s/`*f*`/`*t*`/`*x*↩ ..... substitute *f* by *t* in range *r*
⌊ *x* : `g`—all occurrences, `c`—confirm changes
`:r s` *x*↩ ..... 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` `\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 (≡ *or*)
`\(` `\)` ..... group patterns into an atom
`\&` `\`n ..... the whole matched pattern, n^{th} `()` 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

`m`c ..... mark current position with mark $c \in [a..Z]$
`‘`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 $c \mapsto e$ in normal & visual mode
`:map!` c e`↩` .... map $c \mapsto e$ 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 $c \mapsto e$
`: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↩` `:^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
`:args` ..... display the argument list
`:`r`co` a `:`r`m` 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

`zf`m ..... create fold of movement m
`:`r`fo` ..... 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

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
`:mkview` [f] ..... save view configuration [to file f]
`:loadview` [f] .... load view configuration [from file f]
`^@` `^K` `^_` `\` Fn `^F`n ..... unmapped keys