VIM QUICK REFERENCE CARD

Frequently used VIM commands – Version v1.5 July 2014

Vim cheatsheet based on the version by Michael Goerz

Movements

`:viusage` show a summary of all commands

Basic Movements

refer to helpsection `:h motion.txt`

`h l k j`	character left, right; line up, down
`b w`	word *or* token left, right
`ge e`	end of word *or* token left, right
`{ }`	beginning of previous, next paragraph
`( )`	beginning of previous, next sentence
`[[ ]]`	go to previous, next function
`[{ ]}`	beginning, end of current block
`0 _ $`	beginning, first, last character of line
n`G` n`gg`	line n, default the last, first
n`|`	column n of current line
`%`	match of next brace, bracket, comment, `#define`
`- +`	line up, down on first non-blank character
`B W`	space-separated word left, right
`gE E`	end of space-separated word left, right
`g0 gm`	beginning, middle of *screen* line
`g^ g$`	first, last character of *screen* line
`f`c `F`c	next, previous occurence of character c
`t`c `T`c	before next, previous occurence of c

Insert, Command & Visual Mode

Insertion, Replace $\rightarrow$ insert mode

`i a`	insert before, after cursor
`I A`	insert at beginning, end of line
`gi gI`	insert text on last edited line / 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
`s`c	substitute char. c under cursor
`c`m	change text of movement command m
`cc` *or* `S`	change current line
`C`	change to the end of line

Insert, Command Mode

`^V`c `^V`n	insert char c literally, decimal value n
`^A`	insert previously inserted text
`^@`	same as `^A` and stop insert $\rightarrow$ command mode
`^N ^P`	text completion before, after cursor
`^W`	delete word before cursor
`^U`	delete to start of current line
`^D ^T`	shift left, right one shift width
`^O`c	execute c in temporary command mode
$\langle$esc$\rangle$ *or* `^]`	abandon edition $\rightarrow$ command mode

Insert, Command Mode Completion

CTRL-R

`^R^A`	content under cursor to command mode
`^R`x `^R^R`x	insert content of register x, literally

CTRL-X

`^X^L`	whole lines
`^X^N ^X^I`	keywords in current file, plus included files
`^X^K ^X^N`	keywords in dictionary, thesaurus
`^X^]`	tags
`^X^F`	file names
`^X^D`	definitions or macros
`^X^V`	vim command line
`^X^U`	user defined completion
`^X^O`	omni completion

Visual Mode

refer to `:h object-select`

`v V ^V`	start *or* 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 `{ }`
`g^G`	Count words, character lines and bytes of selection

Delete, Copy to Registers

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
`u U`	undo last command, restore last changed line
`. ^R`	repeat last n changes, redo last undo

Copying

`"`x	use register x for next delete, yank, put
`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

Registers & Macros

show content of all registers: `:reg`

`:@x`	execute register *x* as an *Ex* command
`:register x`	show content of single register *x*
`qx qX q`	record, append, stop recording typed characters as macro into register *x*
`@x`	execute macro of register *x*
`@@`	repeat previous recorded macro
`qxq`	empty register *x*

⇒ `delete lines with pattern x into Register x and copy to clipboard afterwards: :g/x/d x | let @+ = @x`

`q: @:`	list all, repeat macro

Search & Substitute

substitutions work like `:s/p/q/flag`, you may limit your search to an area between *r*anges – for appending *flags* like *g*, *c*, *l* etc, see flaglist below!

Forward & Backward Searches

refer to `:h search-commands`

`/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

Substitutions

refer to `:h :sub`

`:rs/p/q/g`	substitute all *p* by *q* in range *r*
`:rs x`	repeat substitution with new *r* & *x*
`:rg/p/c :rv/p/c`	execute *Ex c* on range *r* where *p* matches, not matches
`:rg/p/-1j`	join all lines in *r* containing pattern *p* with prevline
`:rg/o/s/q/y/g`	for every line in *r* containing *o*, substitute *p* with *q*
`:'a,'bg/o/j`	join any line containing the string *o* to its subsequent line, if it lies between the *a* and *b* marks

Ex Ranges

refer to `:h cmdline-ranges`

,	cursor position interpreted from current line
;	the cursor position will be set to line of last search, substitution

⇒ `both , and ; seperate line numbers. they differ in interpretation though: , (this line) and ; (that line)`

n	an absolute line number *n*
. $	the current, last line in file
% *	entire file, visual area
'*t*	position of mark *t*
/*p*/ ?*p*?	the next, previous line where *p* matches
-*n* +*n*	preceding, appending line *n*

Patterns (differences to Perl)

refer to `:h pattern` and `:h zero-width`

\< \>	start, end of word
\i \k \I \K	an identifier, keyword; excldigits
\f \p \F \P	a file name, printable char.; excldigits
\e \t \r \b	⟨esc⟩, ⟨tab⟩, ⟨↩⟩, ⟨←⟩
\= * \+	match 0..1, 0..∞, 1..∞ of preceding atoms
\{*n*, *m*}	match *n* to *m* occurrences
\{−}	non-greedy match
\\|	separate two branches (≡ *or*)
\(\)	group patterns into an atom
& \1	the whole matched pattern, 1st `()` group
\&	a 'branch' matches last concat, but only if all preceding concats also match at the same position

⇒ `the following pattern finds all lines that contain both "red" and "blue", in any order: /.*red\&.*blue`

\u \l	upper, lowercase character
\c \C	ignore, match case on next pattern
\%x	match hex character
\@= \@!	*char*`(?=pattern)` *char*`(?!pattern)`
\@<= \@<!	`(?=pattern)`*char* `(?!pattern)`*char*

⇒ `everything which comes before the comment sign '#' gets ignored by pattern: /\(#.*\)\@<=pattern`

\@>	`(?>pattern)`
_^ _$	start-of-line, end-of-line, anywhere in pattern
_.	any single char, including end-of-line
\zs \ze	set start, end of pattern
\%^ \%$	match start, end of file
\%V	match inside visual area
\'m	match with position of mark m
\%(\)	unnamed grouping
_[ ]	collection with end-of-line included
\%[ ]	sequence of optionally matched atoms
\v	very magic: patterns almost like perl

Search, Substitute Flags

refer to `:h :s_flags`

c	confirm each substitution
e	do not issue error messages and continue as if no error occurred
g	replace all occurrences in the line

i I	ignore, mind case for the pattern (overwrites 'ignorecase' and 'smartcase' options)
p # l	print the line containing the last substitute, like `:list` , prepend line number afterwards
&	must be the first one: keep flags from the previous substitute

⇒ `repeat last search, substitution with same pattern string: :&r (same as :s//`*c* *or* `:~)`

n	report the number of matches, do not actually substitute. (the [c] flag is ignored.)

Advanced Operations

Special Text Operations

`cgn dgn`	change, delete the next search pattern match (repeat change, deletion with ⟨.⟩)
`J gJ`	join current line with next, without space
`~ g~`*m*	switch case and advance cursor, on movement *m*
`gu`*m* `gU`*m*	switch case, lc, uc on movement *m*
`guu gUU`	lower-/uppercase line

Advanced Scrolling

n`^Y` *n*`^E`	scroll window *n* lines up, downwards
`^D ^U`	scroll half a page up, down
`^F ^B`	scroll page up, down
`zt zz zb`	current line to top, center, bottom of win.
`zh zl`	scroll one character to the right, left
`zH zL`	scroll half a screen to the right, left

Marks and Tags

`:tags` print tag list, `:marks` print the active marks list

`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

Jumps

print the jump list with `:jumps`

n`^O` *n*`^I`	go to n^{th} older, newer position in jump list
`^] ^T`	jump to the tag under cursor, return from tag
`^O ^I`	jump to older, newer location btw buffers
n`g;` *n*`g,`	go to *n* older, newer position in change list
`’.`	jump back on last edited line
`’’`	toggle back, forward to previous, next position

Ex Commands (↩)

refer to `:help holy-grail` for list of all commands

Tags

`:tselect` *t*	list matching tags and select one for jump
`:tjump` *t*	jump to tag or select one if multiple matches
`:tag ^[`	jump to tag (under cursor)

Reading from & writing to files

`:edit` *f*	edit file *f*, reload current file if no *f*
`:args` $f_1 \ldots f_n$	load files to buffer in background
`:`*r*`write` *f*	write range *r* to file *f* (this file if no *f*)
`:`*r*`write>>` *f*	append range *r* to file *f*
`:quit :quit!`	quit and confirm, quit and discard changes
`:wq` *or* `:x` *or* `ZZ`	write to current file and exit
`:`*r*`delete :`*r*`delete` *x*	delete range *r* lines, into register *x*

Filter Lines

`!`*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*

Insert, Send Content

`:r` *f*	insert content of file *f* below cursor
`:r!` *c*	insert output of command *c* below cursor
`:`*r*`copy` *a* `:`*r*`move` *a*	copy, move range *r* below line *a*
`:`*r*`hardcopy > file.ps`	print range to ps file
`:`*r*`ha` *r*`w!lp`	sending *r* to printer (printout)

Compile

`:clist :cfile`	list all errors, read errors from file
`:cnext :cprevious`	display the next, previous error
`:compiler` *c*	set, show compiler plugins
`:copen`	navigate errors from make
`:make`	run `makeprg`, jump to first error

Standard Mode Formatting, Filtering

leave out *m* for visual mode commands

Indentation

set indent-foldmethod by `:set fdm=indent`

$<m$ $>m$	shift left, right text of movement *m*
$n>$ $n<$ $=$	indent, unindent *n* levels, reindent
$n \ll$ $n \gg$	shift *n* lines left, right

Alignment

`gq`*m* `gqgq`	format movement *m*, current line
`:`*r*`ce` *w*	center lines in range *r* to width *w*
`:`*r*`ri` *w*	rightalign lines in range *r* to width *w*

`:`*r*`le` *i*	left align lines in range with indent *i*

Folds

`zf`*m*	create fold of movement *m*
`:`*r*`fold`	create fold for range *r*
`zd zE`	delete fold at cursor, all in window
`zo zc zO 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
`zm zM`	fold more, close all folds
`zr zR`	fold less, open all folds
`zn zN zi`	fold non, fold normal, invert folding
`:set fdc=`*n*	show foldcolumn to level *n*

Multiple Files, Buffers, Tabs (↩)

Generic Buffer Commands

`:tab ball`	show buffers as tablist
`:buffers`	show list of buffers
`:on`	make current window one on screen
`:new :vnew`	create new empty window (vert.)
`:b`*n*	switch to buffer *n*
`:bn :bp :bf :bl`	buffer movement next, prev, first, last
`:bd`*n*	delete buffer *n* (also with filename)

⇒ `Delete all Buffers with Extension 'ext': :bd *.ext ^A`

`:badd f.txt`	load file into new buffer
`:sb`*n*	Split window and edit buffer *n* from the bufflist

Buffer Shortcuts

refer to `:h ctrl-w`

`^^`	toggle between the current and the last window
`^Wf gf`	open file under cursor in new, current window
`^Ww ^W^W`	move to window below, above (wrap)
`^Wj ^Wk`	move to window below, above
`^Wt ^Wb`	move to top, bottom window
`^Wc ^Wo`	close current, all other window(s)
`^Ws ^Wv`	split window in two (vert.)
`^Wx` *or* `^W^R`	swap open buffer windows
`^W`*n*`+ ^W`*n*`-`	increase, decrease window size by *n* lines
`^W`*n* > `^W`*n* <	increase, decrease window width
`^W =`	Make all windows equally high and wide
`^W` *n*_	set window height to *n* (default: very high)
`^W` *n*|	set current window width to *n*

Tab Management

`:tabs`	list all tabs including their displayed windows
`:tabfirst`	go to first tab
`:tablast`	go to last tab
`:tabnew`	open a new empty tab page
`:tabclose`	close current tab page
`:qall :wqall`	quit, and save all tabs
`:tabonly`	close all other tabs
`gt gT`	go to next, previous Tab
n`gt`	goto tab in position *n*

Miscellaneous

Spell Check

activate spellcheck: `:set spell spelllang=en_us`

`]s [s`	next, previous misspelled word
`zg zG`	add good word (to internal word list)
`zug zuG`	undo the addition of a word to the dictionary
`zw zW`	mark bad word (to internal word list)
`z=`	suggest corrections

Vim Start-Options

`vimdiff` f_1 f_2	diff $file_1$ + $file_2$ using synchronized split windows
`vim -o/-O` f_1 $f_2 \ldots f_n$	open *files* in horiz, vert split mode
`vim +`*n* *file*	open *file* at *n*th line (eof if *n* omitted)
`vim +/`*s* *file*	open *file* and search for *string*
`vim -S` *name*	reload vim-session *name*

Special operations

Usefull (and not so usefull) operations which don't fit to any other section :-)

`K`	run `keywordprg` (manpage) on word under cursor
`^A ^X`	increment, decrement number under cursor
`^L`	redraw screen
`^R = 5*5`	insert 25 into text
`ga`	show ASCII value of character under cursor
`gf`	open filename under cursor
`^K`c_1c_2 *or* c_1←c_2	enter digraph $\{c_1, c_2\}$

⇒ `for a complete list of all digraphs enter: :digraphs` *or* `:h digraph-table`

Helpsections

`:h /zero-width`	matches with 'zero-width' ⟨@!⟩ patterns

github.com/emzap79/QRCs

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