VIM QUICK REFERENCE CARD

Frequently used VIM commands – Version v1.3 July 2014

`:viusage` ... Show a summary of all commands

Movements

`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
`[[ ]]`	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

Jumps

`:jumps`	print the jump list
`:ta` `^[`	jump to tag (under cursor)
`^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

Insertion & Replace → 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

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
`dgn`	delete the next search pattern match
`J gJ`	join current line with next, without space
`:`r`d`	delete range r lines
`:`r`d`x	delete range r lines into register x
`q`x`q`	empty register x
`:g/pattern/d` x `| let @+ = @x`	delete lines with pattern c into Register x and copy to clipboard afterwards.

Insert/ Command Mode

`^V`c `^V`n	insert char c literally, decimal value n
`^V`n	insert decimal value of character
`^A`	insert previously inserted text
`^@`	same as `^A` and stop insert → command mode

`^R`x `^R^R`x ...	insert content of register x, literally
`^R^W`	content under cursor to 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
`^X^E ^X^Y` ...	scroll up, down
⟨esc⟩ *or* `^]` *or* `^C`	abandon edition → command mode

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

Misc Ex Commands (↩)

:help holy-grail

:e *f* .... edit file *f*, reload current file if no *f*

:*r*w *f* .... write range *r* to file *f* (current file if no *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

:r *f* .... insert content of file *f* below cursor

:r! *c* .... insert output of command *c* below cursor

Ex Ranges

, ; .... separates line 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* .... preceding/appending line number

Standard Mode Formatting/ Filtering

Leave out *m* for visual mode commands

gq*m* gqgq ... format movement *m*/current paragraph

:*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*

!*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* gu*m* gU*m*

switch case, lc, uc on movement *m*

guu gUU...... lower-/uppercase line

< *m* > *m* .. shift left, right text of movement *m*

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n ≪ *n* ≫ .. shift *n* lines left, right

^A ^X........ increment/decrement number under cursor

Visual Mode
:h object-select

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 { }

g^G........... Count words, character lines and bytes of selection

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

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

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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

Patterns (differences to Perl)
:help pattern

\< \> ...... 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

\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*

\@> .... (?>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

Spell Checking

`:set spell spelllang=de_20`
　　　　　activate spellcheck

`]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

Marks, Motions, and Tags

`m`c .... mark current position with mark $c \in$ [$a..Z$]

`:marks` ...... print the active marks list

`‘`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

n`ˆO` .... go to n^{th} older position in jump list

n`ˆI` .... go to n^{th} newer position in jump list

`ˆ] ˆT` .... 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

Multiple Files / Buffers (↩)

`:tab ball` .. show buffer 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

`:bnext :bprev :bfirst :blast`
　　　　　buffer movement

`:bd`n .... delete buffer n (also with filename)

`:badd f.txt` load file into new buffer

`:sb`n .... Split window and edit buffer n from the bufflist

Buffer Shortcuts
:h ctrl-w

`:bd *.ext ˆA` Deletes all Buffers with Extension 'ext'

`ˆˆ` .... toggle between the current and the last window

`ˆWf gf` ...... open file under cursor in new/current window

`ˆWw ˆWˆW` .... move to window below, above (wrap)

`ˆWj ˆWk` ..... move to window below, above

`ˆWt ˆWb` ..... move to top/bottom window

`ˆWc ˆWo` ..... close current/all other window(s)

`ˆWs ˆWv` ..... split window in two (vert.)

`ˆWx` .... swap open buffer windows

`ˆW`n`+ ˆW`n`-` ... increase/decrease window size by n lines

`ˆW`n` > ˆW`n` <` increase/decrease window width

`ˆW =` .... Make all windows equally high and wide

`ˆW` n`_` .... set window height to n (default: very high)

`ˆW` 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

`:tabc` .... close current tab page

`:wqa :qa` ... (save and) quit all tabs

`:tabo` .... close all other tabs

`gt gT` .... go to next/previous Tab

n`gt` .... goto tab in position n

Advanced Scrolling

n`ˆY` n`ˆE`...... Scroll window n lines up-/downwards

`ˆD ˆU` .... scroll half a page up, down

`ˆF ˆB` .... 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

Completion

`ˆXˆL`.......... whole lines

`ˆXˆN ˆXˆI`..... keywords in current file, plus included files

`ˆXˆK ˆXˆN`.... keywords in dictionary, thesaurus

`ˆXˆ]` .... tags

`ˆXˆF`.......... file names

`ˆXˆD`.......... definitions or macros

`ˆXˆV`.......... vim command line

`ˆXˆU`.......... user defined completion

`ˆXˆO`.......... omni completion

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 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

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zn zN zi  ...  fold non, fold normal, invert folding
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`:set foldcolumn=`n

   show foldcolumn n

Compiling

`:compiler` c set/show compiler plugins

`:make` .... run `makeprg`, 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

Indentation

`:set fdm=indent`

   indent-foldmethod

$n>$ $n<$ $=$ ... indent/unindent n levels, reindent

$n>>$ $n<<$ .. indent/dedent n lines

`G=gg` .... auto (re)indent entire document

Vim Start-Options

`vimdiff` f_1 f_2

   diff $file_1$ + $file_2$ using synchronized
   split windows

`vim -o/-O` f_1 f_2

   open $files$ in horiz/vert split mode

`vim +`n $file$. open $file$ at nth line (eof if n omitted)

`vim +/`s $file$ open $file$ and search for $string$

`vim -S` $name$ reload vim-session $name$

Miscellaneous

`:digraphs` *or* `:h digraph-table`

   complete list of all digraphs

^K$c_1 c_2$ *or* $c_1 \leftarrow c_2$

   enter digraph $\{c_1, c_2\}$

`:`r`hardcopy` r`w!lp`

   sending r to printer (printout)

`:`r`hardcopy > file.ps`

   print range to ps file

`:mkview` $[f]$ `:loadview` $[f]$

   save/load configuration

`:mks` $[f]$ `:so` $[f]$

   save/load session

`:set ff=dos`   convert file to dos eol format

`:e ++ff=unix` reopen file in unix eol format

`:sh :!`c ..... start shell, execute command c in shell

`K` .... run `keywordprg` (manpage) on word
   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

Usefull Helpsections

`:h /zero-width`

   matches with 'zero-width' $\langle @! \rangle$ patterns