

## VIM QUICK REFERENCE CARD

:viusage .....Show a summary of all commands  
:h keyword.....Open help for keyword  
:ter.....Open a terminal window  
:sav file..... Save file as  
k..... Open man page for word under the cursor

### Movements

h l k j .....character left, right; line up, down  
b w .....start of word/token left, right  
B W ..... space-separated word left, right  
ge e .....end of word/token left, right  
gE E ..... end of space-separated word left, right  
{ }.....beginning of previous, next paragraph  
( ).....beginning of previous, next sentence  
O ^ g\_ \$ beginning, first character, last character and  
end of line  
nG ngg Go to line  $n$ , when N is no indicated go to last  
line and first line  
:n.....Go to line  $n$   
n| .....Go to column  $n$  of current line  
% .....match of next brace, bracket, comment, :h  
matchpairs  
H M L..... beginning, middle, botton of *screen*  
ngj ngk .....move cursor down, up  $n$  lines  
fc Fc .....next, previous occurence of character  $c$   
tc Tc ..... before next, previous occurence of  $c$   
; ,. Repeat last f,t,F,T movement backward, fordward  
zz..... Center line under cursor in the screen  
^d..... Move fordward 1/2 page (^= Ctrl)  
Ctrl u..... Move backward 1/2 page

### 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  $n$   
^Vn ..... insert decimal value of character  
^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<sub>1</sub>c<sub>2</sub> *or* c<sub>1</sub>←c<sub>2</sub> ..... 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

### 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  $r$  &  $x$

### Formatting/Filtering

$m$  is movement; leave out for visual mode commands  
gqm ..... format  $m$  (*formatprg*)  
gqgq *or* gqip.....format current paragraph

=  $m$ .....reindent movement  $m$  (*equalprg*)  
: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~ $m$  gum gUm ... switch case, lc, uc on movement  $m$   
< $m$  > $m$  .....shift left, right text of movement  $m$   
n<< n>> .....shift  $n$  lines left, right  
^A ^X..... increment/decrement number under cursor

### Visual Mode & Text Objects

v V ^V ..... highlight characters, lines, block  
o ..... exchange cursor pos with start of highlighting  
gv .....start highlighting on previous visual area  
aw as ap .....select a word, a sentence, a paragraph  
ab aB a] a> .....select a block ( ), { }, [ ] < >  
at.....select an html tag  
a" a' a' .....select a quotet string  
iw is ip ib iB i] i> it i" i' i' ..select “inner”  
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

### Copying (Yanking)

" $x$  ..... use register  $x$  for next delete, yank, put  
:reg [ $x$ ] ..... show content registers/ $x$  reg  
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

*Patterns (differences to Perl)*    :help pattern

\< \> ..... start, end of word

\i \k \I \K ..... an identifier, keyword; excl. digits

\f \p \F \P ..... a file name, printable char.; excl. digits

\e \t \r \b .....  $\langle esc \rangle$ ,  $\langle tab \rangle$ ,  $\langle \leftarrow \rangle$ ,  $\langle \rightarrow \rangle$

\= \* \+ ... match 0..1, 0.. $\infty$ , 1.. $\infty$  of preceding atoms

\{ $n,m$ \} ..... match  $n$  to  $m$  occurrences

\{-\} ..... non-greedy match

\| ..... separate two branches ( $\equiv or$ )

\( \) ..... group patterns into an atom

\& \1 ..... the whole matched pattern, 1<sup>st</sup> () group

\u \l ..... upper, lowercase character

\c \C ..... ignore, match case on next pattern

\%x ..... match hex character

\@= \@! ..... (?=pattern) (!pattern)

\@<= \@<! ..... (?<=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

### Spell Checking

:set spell spelllang=de\_20 .... activate spellcheck

]s ..... next misspelled word

zg zG ..... add good word (to internal word list)

zw zW ..... mark bad word (to internal word list)

z= ..... suggest corrections

### Marks, Motions, and Tags

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

'c 'C ..... go to mark  $c$  in current,  $C$  in any file

'' '" ..... 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

$n^{\wedge}0$  ..... go to  $n^{\text{th}}$  older position in jump list

$n^{\wedge}I$  ..... go to  $n^{\text{th}}$  newer position in jump 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

gf ..... open file which filename is under cursor

:tags ..... print tag list

### Multiple Files / Buffers ( $\leftrightarrow$ )

: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 ... buffer movement

### Scrolling & Multi-Windowing

^D ^U ^F ^B ..... scroll half / full page page down, up

zt zz zb ... current line to top, center, bottom of win

:[v]split ^Ws ^Wv ..... split window (horiz., vert.)

:vert help ..... open help vertically

^Wf ^W ..... open file, tag in split

:[v]new ^W^ $n$  ..... new empty window (horiz., vert.)

:on ^Wo ..... make current win the only one

^Wj ^Wk ^Wh ^Wl .... move down, up, left, right to win

^WJ ^WK ^WH ^WL ..... move win down, up, left, right

^Wn+ ^Wn- ..... increase/decrease win size by  $n$  lines

^Wn > ^Wn < ..... increase/decrease window width

^Wn\_ ^Wn| ..... set height/width (max if no  $n$ )

^W= ..... Make win size equal

^Wr ^Wx ..... Rotate, exchange windows

^Wc ..... close window

### Misc Ex Commands ( $\leftrightarrow$ )    :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  $f$

:r g[!]/ $p/cmd$  .. ex  $cmd$  on range  $r$  [not] matching  $p$

: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

: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

### Completion

^XL ..... whole lines

^X^N ^X^I .. keywords in current file, plus included files

^X^K ^X^N ..... keywords in dictionary, thesaurus

^X^] ^X^F ^X^D ..... tags, filenames, defs/macros

^X^V ..... vim command line

^X^U ^X^O ..... user defined, omni- completion

### Folding

:set fdm=indent ..... indent-foldmethod

zfm ..... create fold of movement  $m$

:rfo ..... 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 foldcolumn=4 ..... show foldcolumn

### 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

### Miscellaneous

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

K ..... run `keywordprg` (man) on word under cursor

^L ..... redraw screen

^G ... show cursor column, line, and character position

:set cuc ..... show cursor column visually

ga ..... show ASCII value of character under cursor

:mkview [*f*] :loadview [*f*] ..save/load configuration

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

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

:write ++enc=utf-8 ..... Write file in utf-8

:set hlsearch .....highlight searches

:rhardcopy > file.ps .....print range to ps file

:set list .....show listchar characters (tabs etc.)