Vim Cheat Sheet

Basic Movement

h 1 k j character left, right; line up, down
b wword/token left, right
ge e end of word/token left, right
{ } beginning of previous, next paragraph
()beginning of previous, next sentence
0 gmbeginning, middle of line
^ \$ first, last character of line
nG n gg line n , default the last, first
$n_{+}^{\prime\prime}$ percentage n of the file (n must be provided)
$n \dots $ column n of current line
% match of next brace, bracket, comment, #define
nH n L line n from start, bottom of window
$\mbox{\tt M} \dots \dots \mbox{\tt middle line of window}$

Insert & Replace

-
i a insert before, after cursor
I A insert at beginning, end of line
gI insert text in first column
o Oopen a new line below, above the current line
rcreplace character under cursor with c
grclike r, but without affecting layout
R replace characters starting at the cursor
gR like R, but without affecting layout
cm
cc or S
C change to the end of line
s change one character and insert
~ switch case and advance cursor
$g^m \dots \dots$ switch case of movement command m
$gum gUm \dots$ lowercase, uppercase text of movement m
$\langle m \rangle m \dots $ shift left, right text of movement m
$n \ll n \gg \dots$ shift n lines left, right

Deletion

x X	delete character under, before cursor
${\rm d} m \dots \dots \dots \dots$	delete text of movement command m
$n { m dd}$ D	delete n lines, to the end of line
nJ n gJ	\dots join n lines, without space
:rd	delete range r lines
$: rdx \dots \dots \dots \dots$	\dots delete range r lines into register x

Insert mode

${}^{\circ}$ V c ${}^{\circ}$ V n insert char c literally, decimal value n
${\bf \hat{A}} \dots $
${\bf \hat{o}}$ same as ${\bf \hat{A}}$ and stop insert ${\bf \rightarrow}$ command mode
$^{}$ R x $^{}$ R $^{}$ R x insert content of register x , literally
${\bf ^{}N}$ ${\bf ^{}P}$ text completion before, after cursor
${\bf \tilde{W}}$
${\tt \tilde{U}}$ delete all inserted character in current line
${\bf \hat{D}}$ ${\bf \hat{T}}$
${}^{}$ K c_1c_2 or $c_1\leftarrow c_2$ enter digraph $\{c_1,c_2\}$
${\bf \hat{0}}c$ execute c in temporary command mode
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\langle esc \rangle_{\mathit{or}} \hat{} [\ldots \ldots \text{abandon edition} \to \text{command mode}$

Copying

" x
у $m \dots y$ ank the text of movement command m
$nyy \circ_r nY$ yank n lines into register
$np nP \dots put$ register after, before cursor position (n times)
]p [plike p, P with indent adjusted
$gp\ gP\dots\dots$ like p,P leaving cursor after new text

Advanced insertion

g?mperform rot13 encoding on movement m
$n^{} A n^{} X \dots + n, -n$ to number under cursor
$gqm \dots \dots$ format lines of movement m to fixed width
:rce w center lines in range r to width w
:rle $i ext{}$ left align lines in range r with indent i
$:rri \ w \dots :right align lines in range r to width w$
$!mc \dots$ 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

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_{-}
g0 beginning of screen line
g^ g\$first, last character of screen line
gk gjscreen line up, down
$fc Fc \dots next$, previous occurence of character c
t c T c before next, previous occurence of c
; , repeat last ${\tt fFtT},$ in opposite direction
[[]] \dots start of section backward, forward
[]][end of section backward, forward
[(]) unclosed (,) backward, forward
[{]} unclosed {, } backward, forward
$[{\tt m}\]{\tt m} \ldots \ldots$ start of backward, forward ${\it Java}$ method
[#]# \dots unclosed #if, #else, #endif backward, forward
$[*\]*start,$ end of $/*\ */$ backward, forward

Text Object Selection

$\mathtt{a}O$	iO	text object, is	nner object
w V	/ s p	ord, WORD, sentence,	paragraph
t {	[(<"'	XML tags	enclosings

Visual mode

v V ~Vstart/stop highlighting characters, lines, block
oexchange cursor position with start of highlighting
gv start highlighting on previous visual area
aw as apselect a word, a sentence, a paragraph
ab aBselect a block (), a block {}

Undoing & repeating

u Uundo last command, restore last changed line
. Rrepeat last changes, redo last undo
nrepeat last changes with count replaced by n
:rg/p/c execute Ex command c on range r
\lfloor where pattern p matches
:rg!/p/c execute Ex command c on range r
\lfloor where pattern p does not match

Macros & Registers

q c q C record, append typed characters in register c
${\tt q}{\tt stop} \ {\tt recording}$
${\tt Q} c \ldots \ldots$ execute the content of register c
n@@repeat previous @ command n times
$: 0c \dots \dots execute register c$ as an Ex command
:reg $[c]$ show contents of reg(s)
"" "% special regs: last del or yank, filename
"/ ":special regs: last search, command line
"* "+special regs: clipboard (X11 selection), clipboard
". "0 "1"9 special regs: last insert, yank, del/change

Search & substitution

/s ?ssearch forward, backward for s
/s/o ?s?osearch fwd, bwd for s with offset o
n_{or} / repeat forward last search
\mathbb{N}_{or} ?repeat backward last search
* search backward, forward for word under cursor
$g\#\ g*\ldots\ldots$ same, but also find partial matches
gd gDlocal, global definition of symbol under cursor
:rs/f/t/xsubstitute f by t in range r
$\lfloor x : g$ —all occurrences, c—confirm changes
:rs x repeat substitution with new $r \& x$

Special characters in search patterns

Special characters in search patterns	
. ^ \$ any single character, start, end of l	ine
\< \> start, end of wo	ord
$[c_1-c_2]$ a single character in range c_1 .	$.c_2$
$[\hat{c}_1 - c_2]$ a single character not in ran	nge
\i \k \I \Kan identifier, keyword; excl. dig	gits
\f \p \F \Pa file name, printable char.; excl. dig	gits
\s \S a white space, a non-white space	ace
\e \t \r \b $\langle esc \rangle$, $\langle tab \rangle$, $\langle \rangle$,	$\leftarrow\rangle$
$= * + \dots $ match $01, 0\infty, 1\infty$ of preceding ato	ms
$\setminus \dots $ separate two branches ($\equiv e^{-i\omega}$	or)
\(\) group patterns into an at	om
\&\ $n \dots$ the whole matched pattern, n^{th} () gro	oup
\u \lnext character made upper, lowerch	ase
\c \Cignore, match case on next patte	ern

Offsets in search commands

$n_{or}+n$ n line downward in column 1
$-n \dots n$ line upward in column 1
e+n $e-n$
s+n $s-n$ n characters right, left to start of match
; $sc\ldots\ldots$ execute search command sc next

Buffers

:ls display all buffers
:bad :bdadd, delete
:bn :bN :bf :bl next, previous, first, last buffer
:bufdo c execute command c in each buffer
:bufdo undoundo change in each buffer
:b n edit buffer n

Arguments

:args files print, set argument list
:all :sall open a window for every file in the arg list
:arga filesadd files to arg list
:argd filesdelete files from arg list
:wn :wNwrite file and edit next, previous one
:n :Nedit next, previous file in list
:argdo c execute command c for every file in list

Tabs

:tabslist tabs
:tabe $file$ new tab
:tabf file find file and open new tab
:gt :gT :tabr :tablnext, previous, first, last tab
Wgffile under cursor
:tabc n :tabo
:tabdo cexecute command in each tab

Ex commands (\leftarrow)

Ex ranges

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Command-line Editing

$\operatorname{\hat{v}} c$	$\dots \dots $
${}^{}$ V $n\ldots\ldots$	enter decimal value of character
${\bf \hat{R}}c$	\ldots insert contents of register c
`W	\ldots . delete the word in front of the cursor
~U	$\ldots \ldots remove \ all \ characters$
^B ^E	.cursor to beginning, end of command-line

Multi-windowing

Ws or:splitsplit window in two
Wv or: vsplit vertically split window in two
$\operatorname{\widetilde{W}}$ n or : new create new empty window
${\operatorname{`Wo}}\ {\mathit{or}}:$ on make current window one on screen
Wc or:close current window
Wj Wk move to window below, above
Ww Wwwmove to window below, above (wrap)
q: q/md-line history window, search history
:windo c execute command c in each window

Scrolling

^E ^Yscroll line up, down
$\mathbf{\tilde{D}}$ $\mathbf{\tilde{U}}$
${\bf \hat{F}}$ ${\bf \hat{B}}scroll$ 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
${\tt zH} {\tt zL} \ldots \ldots {\tt scroll}$ half a screen to the right, left

Folding

$\mathtt{zf}m$ create fold of movement m
:rfocreate fold for range r
zd zEdelete fold at cursor, all in window
zo zc zO zCopen, close one fold; recursively
[z]zmove to start, end of current open fold
zj zk move down, up to start, end of next fold

Marks and motions

$mc \dots mark current position with mark c \in [aZ]$
'c 'C go to mark c in current, C in any file
'09go 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
:jumpsprint the jump list
n^0 go to n^{th} older position in jump list
n î go to n th newer position in jump list

Tags

Key mapping & abbreviations

:map $c \ e \ldots \ldots map \ c \mapsto e$ in normal & visual mode
:map! $c \in \ldots map c \mapsto e$ 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
:una c remove abbreviation c

Miscellaneous

К	lookup keyword under cursor with man
:mak	estart make, read errors and jump to first
:cn	:cpdisplay the next, previous error
:cl	$: \mathtt{cf} \ \ list \ all \ errors, \ read \ errors \ from \ file$
g^G.	show cursor column, line, and character position
ga	show ASCII value of character under cursor

W Best of Vim Tips

Best of Vim Tips
ci"change text inside ""
daw delete a word
$\mathtt{ct}c\ldots$ replace text until next occurrence of c
xp exchange 2 characters
/.*fred\&.*joe search for FRED AND JOE in any ORDER
3/joe/e+1 find 3rd joe cursor set to End of match plus 1
/begin*end search over possible multiple lines
/\ <fred\>/search for fred but not alfred or frederick</fred\>
/^\n\{3}find 3 empty lines
$/(\hat{str}.*\langle n \rangle)$ {2} find 2 successive lines starting with str
/bugs\(\\)*bunny bugs followed by bunny anywhere in file
/^\([^,]*,\)\{8}repeating the Regexp
^\(.*nos.*\)\@!.*str.*\$find str in lines not containing nos
:%s/old/new/gi replace case insensitive
:2,35s/old/new/greplace between lines 2 and 35
:5,\$s/old/new/greplace all occurrences from line 5 to EOF
:%s/^/hello/g replace the begining of each line by hello
:%s/\$/Harry/greplace the beginning of each line by Harry
:%s/ *\$//gdelete all white spaces at end of lines
:% s /\(.*\)\ n \1\$/\1/delete duplicate lines
:%s,\(all/.*\)\@<=/,_,greplace all / with _ AFTER "all/"
:g/string/ddelete all lines containing string
:v/string/ddelete all lines not containing string
:g/\s*\$/ddelete all blank lines
$:g/\{/,/\}/-s/n+/r/g$ del empty lines only between $\{\}$
:g/fred/,/joe/jjoin lines
:g/fred/y Aappend all lines containing fred to register a
:g/^/tduplicate every line
:v/./,/./-jcompress empty lines
:%norm jdddelete every other line
:1,10 w >> outfileappend lines 1 to 10 to outfile
:bufdo /searchstr/multiple file search
:bufdo %s/old/new/gmultiple file search & replace
:earlier 15m set doc back to how it was 15 minutes ago
:%!xxd :%!xxd -renter hex edit mode, revert
:%!sort -u use external program to filter content
:.g/^/ exe ".!sed 's/N/X/'" s/I/Q/chain external cmd
gvim -0 file1 file2open with vertical split (-o horizontal)
:w !sudo tee %save current file as root
.w . Bado occ /6save current me as 100t