

Exit

:q[uit]	Quit Vim. This fails when changes have been made.
:q[uit]!	Quit without writing.
:cq[uit]	Quit always, without writing.
:wq	Write the current file and exit.
:wq!	Write the current file and exit always.
:wq {file}	Write to {file}. Exit if not editing the last
:wq! {file}	Write to {file} and exit always.
:[range]wq[!]	[file] Same as above, but only write the lines in [range].
ZZ	Write current file, if modified, and exit. (Command Mode)
ZQ	Quit current file and exit (same as ":q!"). (Command Mode)

Editing a File

:e[dit]	Edit the current file. This is useful to re-edit the current file, when it has been changed outside of Vim.
:e[dit]!	Edit the current file always. Discard any changes to the current buffer. This is useful if you want to start all over again.
:e[dit] {file}	Edit {file}.
:e[dit]! {file}	Edit {file} always. Discard any changes to the current buffer.
gf	Edit the file whose name is under or after the cursor. Mnemonic: "goto file". (Command Mode)

Start Insert Mode

a	Append text after the cursor [count] times.
A	Append text at the end of the line [count] times.
i	Insert text before the cursor [count] times.
I	Insert text before the first non-blank in the line [count] times.
g I	Insert text in column 1 [count] times.
0	Begin a new line below the cursor and insert text, repeat [count] times.
О	Begin a new line above the cursor and insert text, repeat [count] times.



Inserting into file

:r[ead] [name]	Insert the file [name] below the cursor.
:r[ead] !{cmd}	Execute {cmd} and insert its standard output below the cursor.

Deleting Text

 or x	Delete [count] characters under and after the cursor
X	Delete [count] characters before the cursor
d{motion}	Delete text that {motion} moves over
dd	Delete [count] lines
D	Delete the characters under the cursor until the end of the line
{Visual}x or {Visual}d	Delete the highlighted text (for {Visual} see <u>Selecting Text</u>).
{Visual}CTRL-H or {Visual}	When in Select mode: Delete the highlighted text
{Visual}X or {Visual}D	Delete the highlighted lines
:[range]d[elete]	Delete [range] lines (default: current line)
:[range]d[elete] {count}	Delete {count} lines, starting with [range]

Changing (or Replacing) Text

r{char}	replace the character under the cursor with {char}.
R	Enter Insert mode, replacing characters rather than inserting
~	Switch case of the character under the cursor and move the cursor to the right. If a [count] is given, do that many characters.
~{motio n}	switch case of {motion} text.
{Visual} ~	Switch case of highlighted text



Substituting

:[range]s[ubstitute]/{pattern}/{string}/[c] [e][g][p][r][i][I] [count]	For each line in [range] replace a match of {pattern} with {string}.
:[range]s[ubstitute] [c][e][g][r][i][I] [count] :[range]&[c][e][g][r][i][I] [count]	Repeat last :substitute with same search pattern and substitute string, but without the same flags. You may add extra flags

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The arguments that you can use for the substitute commands:
[c] Confirm each substitution. Vim positions the cursor on the matching
  string. You can type:
              to substitute this match
              to skip this match
        to skip this match
              to substitute this and all remaining matches {not in Vi}
              to quit substituting {not in Vi}
      CTRL-E to scroll the screen up {not in Vi}
      CTRL-Y to scroll the screen down {not in Vi}.
        When the search pattern fails, do not issue an error message and, in
  particular, continue in maps as if no error occurred.
[g] Replace all occurrences in the line. Without this argument,
  replacement occurs only for the first occurrence in each line.
[i] Ignore case for the pattern.
    Don't ignore case for the pattern.
    Print the line containing the last substitute.
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Copying and Moving Text

'{a-zA-Z0-9.%#:-" }	Use register {a-zA-Z0-9.%#:-"} for next delete, yank or put (use uppercase character to append with delete and yank) ({.%#:} only work with put).
reg[isters]	Display the contents of all numbered and named registers.
reg[isters] {arg}	Display the contents of the numbered and named registers that are mentioned in {arg}.
di[splay] [arg]	Same as :registers.
["x]y{motion}	Yank {motion} text [into register x].
["x]yy	Yank [count] lines [into register x]
["x]Y	yank [count] lines [into register x] (synonym for yy).
{Visual}["x]y	Yank the highlighted text [into register x] (for {Visual} see <u>Selecting Text</u>).
{Visual}["x]Y	Yank the highlighted lines [into register x]
[range]y[ank] [x]	Yank [range] lines [into register x].
[range]y[ank] [x] {count}	Yank $\{count\}$ lines, starting with last line number in $[range]$ (default: current line), $[into register x]$.
["x]p	Put the text [from register x] after the cursor [count] times.
["x]P	Put the text [from register x] before the cursor [count] times.
["x]gp	Just like "p", but leave the cursor just after the new text.
["x]gP	Just like "P", but leave the cursor just after the new text.
[line]pu[t] [x]	Put the text [from register x] after [line] (default current line).
[line]pu[t]! [x]	Put the text [from register x] before [line] (default current line).
di[splay] [arg] ["x]y{motion} ["x]yy ["x]Y {Visual}["x]y {Visual}["x]Y [range]y[ank] [x] [count] ["x]p ["x]p ["x]p ["x]gp ["x]gp [[ine]pu[t] [x]	Same as :registers. Yank {motion} text [into register x]. Yank [count] lines [into register x] (synonym for yy). Yank the highlighted text [into register x] (for {Visual} see Selecting Text). Yank the highlighted lines [into register x] Yank [range] lines [into register x]. Yank {count} lines, starting with last line number in [range] (default: current line), [into register x]. Put the text [from register x] after the cursor [count] times. Put the text [from register x] before the cursor [count] times. Just like "p", but leave the cursor just after the new text. Put the text [from register x] after [line] (default current line).



Undo/Redo/Repeat

u	Undo [count] changes.
:u[ndo]	Undo one change.
CTRL-R	Redo [count] changes which were undone.
:red[o]	Redo one change which was undone.
U	Undo all latest changes on one line. {Vi: while not moved off of it}
•	Repeat last change, with count replaced with [count].

Moving Around

Basic motion commands:

h or	[count] characters to the left (exclusive).
l or	[count] characters to the right (exclusive).
k or CTRL-P	[count] lines upward
j or CTRL-J or	[count] lines downward (linewise).
CTRL-N	
0	To the first character of the line (exclusive).
<home></home>	To the first character of the line (exclusive).
٨	To the first non-blank character of the line
\$ or <end></end>	To the end of the line and [count - 1] lines downward
g0 or g <home></home>	When lines wrap ('wrap on): To the first character of the screen line (exclusive). Differs from "0" when a line is wider than the screen. When lines don't wrap ('wrap' off): To the leftmost character of the current line that is on the screen. Differs from "0" when the first character of the line is not on the screen.
g^	When lines wrap ('wrap' on): To the first non-blank character of the screen line (exclusive). Differs from "^" when a line is wider than the screen. When lines don't wrap ('wrap' off): To the leftmost non-blank character of the current line that is on the screen. Differs from "^" when the first non-blank character of the line is not on the screen.



g\$ or g <end&gr;< td=""><td>When lines wrap ('wrap' on): To the last character of the screen line and [count - 1] screen lines downward (inclusive). Differs from "\$" when a line is wider than the screen. When lines don't wrap ('wrap' off): To the rightmost character of the current line that is visible on the screen. Differs from "\$" when the last character of the line is not on the screen or when a count is used.</td></end&gr;<>	When lines wrap ('wrap' on): To the last character of the screen line and [count - 1] screen lines downward (inclusive). Differs from "\$" when a line is wider than the screen. When lines don't wrap ('wrap' off): To the rightmost character of the current line that is visible on the screen. Differs from "\$" when the last character of the line is not on the screen or when a count is used.
f{char}	To [count]'th occurrence of {char} to the right. The cursor is placed on {char} (inclusive).
F{char}	To the [count]'th occurrence of {char} to the left. The cursor is placed on {char} (inclusive).
t{char}	Till before [count]'th occurrence of {char} to the right. The cursor is placed on the character left of {char} (inclusive).
T{char}	Till after [count]'th occurrence of {char} to the left. The cursor is placed on the character right of {char} (inclusive).
;	Repeat latest f, t, F or T [count] times.
,	Repeat latest f, t, F or T in opposite direction [count] times.
- <minus></minus>	[count] lines upward, on the first non-blank character (linewise).
+ or CTRL-M or <cr></cr>	[count] lines downward, on the first non-blank character (linewise).
_ <underscore></underscore>	[count] - 1 lines downward, on the first non-blank character (linewise).
<c-end> or G</c-end>	Goto line [count], default last line, on the first non-blank character.
<c-home> or gg</c-home>	Goto line [count], default first line, on the first non-blank character.
<s-right> or w</s-right>	[count] words forward
<c-right> or W</c-right>	[count] WORDS forward
е	Forward to the end of word [count]
E	Forward to the end of WORD [count]
<s-left> or b</s-left>	[count] words backward
<c-left> or B</c-left>	[count] WORDS backward
ge	Backward to the end of word [count]
gE	Backward to the end of WORD [count]

These commands move over words or WORDS.

A word consists of a sequence of letters, digits and underscores, or a sequence of other non-blank characters, separated with white space (spaces, tabs,



A WORD consists of a sequence of non-blank characters, separated with white space. An empty line is also considered to be a word and a WORD.

ed after an operator, then the '}' in the first

Marks

m{a-zA-Z}	Set mark {a-zA-Z} at cursor position (does not move the cursor, this is not a motion command).
m' or m`	Set the previous context mark. This can be jumped to with the """ or "``" command (does not move the cursor, this is not a motion command).
: [range]ma[rk] {a-zA-Z}	Set mark {a-zA-Z} at last line number in [range], column 0. Default is cursor line.
: [range]k{a-z A-Z}	Same as :mark, but the space before the mark name can be omitted.
'{a-z}	To the first non-blank character on the line with mark {a-z} (linewise).
'{A-Z0-9}	To the first non-blank character on the line with mark {A-Z0-9} in the correct file
`{a-z}	To the mark {a-z}
`{A-Z0-9}	To the mark {A-Z0-9} in the correct file
:marks	List all the current marks (not a motion command).
:marks {arg}	List the marks that are mentioned in {arg} (not a motion command). For example:



Searching

/{pattern}[/]	Search forward for the [count]'th occurrence of {pattern}
/{pattern}/{offset}	Search forward for the [count]'th occurrence of {pattern} and go {offset} lines up or down.
/ <cr></cr>	Search forward for the [count]'th latest used pattern
//{offset} <cr></cr>	Search forward for the [count]'th latest used pattern with new. If {offset} is empty no offset is used.
?{pattern}[?] <cr></cr>	Search backward for the [count]'th previous occurrence of {pattern}
?{pattern}? {offset} <cr></cr>	Search backward for the [count]'th previous occurrence of {pattern} and go {offset} lines up or down
? <cr></cr>	Search backward for the [count]'th latest used pattern
??{offset} <cr></cr>	Search backward for the [count]'th latest used pattern with new {offset}. If {offset} is empty no offset is used.
n	Repeat the latest "/" or "?" [count] times.
N	Repeat the latest "/" or "?" [count] times in opposite direction.

Selecting Text (Visual Mode)

To select text, enter visual mode with one of the commands below, and use <u>motion commands</u> to highlight the text you are interested in. Then, use some command on the text.

The operators that can be used are:

- ~ switch case
- d delete
- c change
- y yank
- > shift right
- < shift left
- ! filter through external command
- = filter through 'equalprg' option command
- gq format lines to 'textwidth' length

V	start Visual mode per character.
V	start Visual mode linewise.
<esc></esc>	exit Visual mode without making any changes

How to Suspend

CTRL-Z	Suspend Vim, like ":stop". Works in Normal and in Visual mode. In Insert and Command-line mode, the CTRL-Z is inserted as a normal character.
: sus[pend] [!] or :st[op][!]	Suspend Vim. If the '!' is not given and 'autowrite' is set, every buffer with changes and a file name is written out. If the '!' is given or 'autowrite' is not set, changed buffers are not written, don't forget to bring Vim back to the foreground later!

Legend: Esc See: src/ops.c -c "/valid_yank_reg" for "- reg. names HOW-TO make Vim not suck Out of the Box: :help statusline :set nocom 6 See: src/normal.c -c "/nv_cmds" for g. extra cmds Note: There is no whitespace in-between 'Foo(src,' WORD word Modes Extra goto mark Code gvimdiff <file1> <file2> [<file3>] XSO Linux vim -g vim <file> ... -c "/Foo" vim <file> ... -t Foo Find tag Cmd toggle case Caps Broken Keys Ctrl-I = Tab, Ctrl-[= ESC Vim is still unable to map certain keys for your own use... Tab Best tips: Normal Ctrl . <filename> +123 :set guifont=ProggyTiny\:h11 :set guifont=ProggyTinyTT\ 12 Visual Insert Motion req.; act between cursor & dst Op pending :help modes Char arg req. Extended functionality; req. extra chars Code formatting, whitespace, etc. ctags / diffs / folding Search ([∧] = reverse, [√] = forward) Moves cursor or defines range for op-Command and enter insert mode Command Register name (0-9a-zA-Z) required Normal Foo (src, bdst, Command Line : Foo (src , http://vim.wikia.com/ Revision 2.0 Sept. 11, 2011 Shift ↑ gvim Ctrl ^ extern filter Q block select Ctrl 1 a append _ ex mode A append → P^ ν^ ν ν g z Z ^w c d y < > airs Esc ^[^c x_msgs" for ^x• insert cmds Ыdst , Ыlen start GUI ver. cmd: find 'Foo' & edit edit at tag 'Foo' goto line 123 incr. # The search direction is relative; **next** is the initial direction, **previous** is the opposite direction. @ extra :suspend quit : Version Vim 7.3+ **∛** but before/after 8 ≶ 1 11 b len Ctrl @ S S play macro WORD \ window word \ × × subst char subst line del char -# decr. # del char Best scripts: http://www.vim.org/scripts/index.php O :s/Foo/Bar/g :set :set backspace=indent,eol,start · · · · +# cur line, cur line + # lines :%s/Foo/Bar :s/Foo/Bar set autoindent! toggle auto-indent set shiftwidth=# indent width for ai :help cmdline :r file insert file O Ctrl 3 begin next func { [[begin this func { 1g start of file #g goto line # e scroll line ↑ ^u ½ page ↑ :set matchpairs=(:),{:},[:],<:>,?:\ ^b page ↑ :source % eq quit :w save \$ last line ○ I← Start of Line column 0 :exec '... do cmd :e <file> ş → End of Line WORD scroll line lisp move col 0 word goto matching { } < > [] → Start of Line 1st non-whitespace end end ဂ C half page del → allow backspace join lines del change change → ₩ 4 tible ruler laststatus=2 snowcmd snowmode number apply to whole file ...all instances on line find Foo replace w/ Bar exec cmds in cur file edit file in new buffer : q! Z :gui Vim Cheat Sheet for Programmers Ctrl 4 • ⁰g end of file ^d ½ page↓ # | move col # Ţ '> end of select ^f page ↓ end of file y scroll line ^ < start of select Replace replace char :redo ← find char find char → < < switch to quit w/o save page ↓ block select 5 % chars select lines select 7 T• ← until char g. Ctrl 5 G goto natch until char noremap + :s/^/\///<CR> :set colorcolumn=80 visible right margin indicator :set list! :set listchars= :set expandtab! :set tabstop=# W Р @ · start recording ta Foo manual jump to tag 'Foo' goto line# goto eof / file/cursor info 99 zm zi invert all C zo fold open zR fold remove]c next diff [c prev diff :ts extra :help record zr fold reduce :diffupdate playback ✓ WORD 0 stop recording fold more fold close > resync page ✓ word ~ complete word restore cursor before tag jump jump to tag under cursor list active tags soft _↑ n ; repeat same initial direction find. copy copy line Ctrl ^ I scroll line :hi DiffDelete :hi DiffAdd z 9,76 :hi DiffText gui=none :hi DiffChange guibg=#rrggbb 3 Top screer Ctrl H c cpp sh make perl python 7 toggle whitespace tab:>-:trail:-,nbsp:%,eol:\$ toggle hard/soft tabs :set fileformat= ζo Search :set incsearch ignorecase smartcase hIsearch set tab stop every #th co "next" find ⊆ Note: chose only ONE type! 9; U undo line unix or dos or mac :set filetype= :changes then :w to convert :syntax enable anges repeat :s older change newer change Ctrl 7 undo nalf page block comment m• set mark guifg=#rrggbb ⋜ Join lines Ctrl J ∞ Middle Ctrl M screen ス Ctrl 8 ľ insert repeat opposite initial direction find. Note: insert Ctrl+ \$11 21 man page identifier 10 :set showmatch 12 §6 99 noremap - :s/^\/\//<CR> §0 "• before del/copy/paste to use register :set wrap! :set numbers! 5 ω N Z gf ZZ Repeat op to act on current line Number before any action repeats it ^x • ^f filename completion p 9 · Te zt zh "+gP :map \ :Explore<CR> manually type <,C,R,> f/F/t/T "prev" d :map <F9> :e \$HOME/ Ctrl, 0 + clipboard (or '*') prev auto-complete n 0 ↑t thesaurus K dictionary sentence paste from system clipboard cut to system clipboard reg. Ctrl 9 undent scroll top highlight words under cursor paste twice begin last del/copy paste register 0-9a-zA-Z or ... decr # under cursor (Dec / Hex) scroll left save & quit undent line copy line start a "new" search incr # under cursor (Dec / Hex) open file under cursor top of file center cursor line in window open * prev mark open ↓ Insert mode screen Bottom redraw highlite matching () Copyleft © 2011 May be freely distributed toggle linewrap display toggle line numbers Sharing is Caring. repeat Ctrl. cmd Remove useless splash screen :set shortmess+=I 0 D vimrc<CR> sentence hard [™] filename S :set spell! Ctrl 0 :help spell end zb scroll bottom zo quit w/o save >> indent line dd del line repeat thrice paste paste z1 scroll right :help c_CTRI ٥ ; only searches cursor line, n N searches buffer. next next bad f/F/t/T "next" indent cmd line Ctrl; http:/michael.PeopleOfHonorOnly.com/vim/ :map <F6> :so \$HOME/ find ✓ find ✓ + Ctrl/ cur line Ctr/_ • paragrap Normal misc. · W :Explore Unused & Duplicate keys goto mark one of buffer las Cursor Bookmarks :new blank file/buffer buffers register :help windows :set columns=# :set lines=# : bd! force close :set browsedir=... sp [<filename>] :winpos # # :bd close file bp prev file bn next file Ctrl-L (redraw)

near dup of 14 Ctr1-Q = Ctr1-V 15 Ctr1-J = Ctr1-M = edit in split windo File / Directory Ctrl' Windows move to win ↓ move to win ↑ goto global 'A' mark local 'a' move to win \rightarrow Or :wincmd :switch to next prev location move to win ← all same size only maximize: :vsplit vertical :split horz :new :close! :buffer# Vimrc<CR or :e list files -Ctrl = paragraph misc. goto col# Ctrl (free)