

# Thoughtful Solutions

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## vi editor for Solaris

### Quick Reference Card

#### Conventions

<b>&lt;CR&gt;</b>	RETURN key
<b>&lt;ESC&gt;</b>	ESCAPE key
<b>&lt;DEL&gt;</b>	DELETE key
<b>&lt;Ctrl-X&gt;</b>	press <Control> key and type <i>x</i> items to be replaced by your own requirements

#### Entering/leaving vi

(\$ represents Solaris system prompt)

\$ <b>vi</b> <i>name</i>	open or create file <i>name</i>
\$ <b>vi +n</b> <i>name</i>	open file at line <i>n</i>
\$ <b>vi +</b> <i>name</i>	open file at end
\$ <b>vi -r</b>	list saved files
\$ <b>vi -r</b> <i>name</i>	recover file <i>name</i>
\$ <b>vi</b> <i>name1 name2</i>	edit first file; edit the rest via <b>:n</b>
\$ <b>vi -t</b> <i>tag name</i>	open file <i>name</i> at <i>tag</i>
\$ <b>vi +/pat</b> <i>name</i>	open at first occurrence of <i>pat</i>
\$ <b>view</b> <i>name</i>	open file for read only
<b>:w</b>	write changes to file
<b>:w</b> <i>name</i>	write to file <i>name</i>
<b>:w!</b> <i>name</i>	overwrite file <i>name</i>
<b>:wq</b>	write changes and quit
<b>:q</b>	quit
<b>:q!</b>	quit without saving changes
<b>ZZ</b>	exit from vi, saving changes
<b>&lt;Ctrl-Z&gt;</b>	stop vi for later resumption

#### vi modes

Command	normal and initial mode (other modes return here when terminated) <ESC> cancels partial command entered by <b>a i A I o O c C s S R</b> terminate with <ESC>
Insert	reading input for <b>: / ? or !</b> terminate with <ESC> or <CR> to execute

#### Moving around within the file

	move cursor:
<b>h</b> or ⇐	to left
<b>&lt;Ctrl-H&gt;</b>	to left
<b>&lt;backspace&gt;</b>	to left
<b>j</b> or ↓	to next line
<b>&lt;CR&gt;</b>	to next line
<b>k</b> or ↑	to previous line
<b>l</b> or ⇒	to right
<b>&lt;space bar&gt;</b>	to right
<b>O</b>	to beginning of line
<b>\$</b>	to end of line
<b>^</b>	to first non-white on line
<b>w</b>	right one word
<b>W</b>	right one word past punctuation
<b>b</b>	back one word
<b>B</b>	back one word past punctuation
<b>e</b>	to end of word
<b>E</b>	to end of word past punctuation
<b>H</b>	to top of screen
<b>L</b>	to bottom of screen
<b>M</b>	to middle of screen
<b>&lt;Ctrl-F&gt;</b>	page forward screenfull
<b>&lt;Ctrl-B&gt;</b>	page backward screenfull
<b>&lt;Ctrl-D&gt;</b>	scroll down half screenfull
<b>&lt;Ctrl-U&gt;</b>	scroll up half screenfull
<b>nG</b>	go to line <i>n</i>
<b>G</b>	go to last line
<b>/pat</b>	go to next line matching <i>pat</i>
<b>?pat</b>	go to previous line matching <i>pat</i>
<b>n</b>	repeat last / or ?
<b>N</b>	repeat last / or ? in reverse direction
<b>/pat/ +n</b>	<i>n</i> 'th line after <i>pat</i>
<b>?pat? -n</b>	<i>n</i> 'th line before <i>pat</i>
<b>%</b>	find matching <b>(){} or {}</b>
<b>)</b>	move cursor to next sentence
<b>}</b>	move cursor to next paragraph
<b>(</b>	move cursor to last sentence
<b>[[</b>	move cursor to last paragraph
<b>]]</b>	move cursor to next section/function
<b>[[</b>	move cursor to last section/function
<b>f<sub>x</sub></b>	move to <i>x</i> forward in current line
<b>F<sub>x</sub></b>	move to <i>x</i> backward in current line
<b>t<sub>x</sub></b>	move forward to character before <i>x</i>
<b>T<sub>x</sub></b>	move back to character after <i>x</i>
<b>;</b>	repeat last <b>f F t T</b> in same direction

<b>,</b>	repeat last <b>f F t T</b> in reverse direction
<b>n </b>	move to column <i>n</i> in current line
<b>+</b>	move to next line, at first non-white
<b>-</b>	move to previous line, at first non-white

#### Inserting text

<b>a</b>	append text after cursor
<b>A</b>	append text at end of line
<b>i</b>	insert text before cursor
<b>I</b>	insert text at beginning of line
<b>o</b>	open line below, ready for text
<b>O</b>	open line above, ready for text

#### Changing Text

<b>cw</b>	change word (or part of word)
<b>cc</b>	change line
<b>C</b>	change part of line to right of cursor
<b>s</b>	substitute string for character under cursor
<b>S</b>	substitute entire line
<b>r<sub>x</sub></b>	replace character under cursor with <i>x</i>
<b>r&lt;CR&gt;</b>	break line at cursor position
<b>R</b>	overwrite text to right of cursor
<b>J</b>	join line below to current line
<b>xp</b>	transpose characters
<b>~</b>	change case of letter
<b>u</b>	undo last change
<b>U</b>	undo all changes to line
<b>:u</b>	undo previous last-line command
<b>.</b>	repeat last change

#### Corrections when adding text

<b>&lt;Ctrl-H&gt;</b>	erase last input character
<b>&lt;DEL&gt;</b>	erase last input character
<b>&lt;back space&gt;</b>	erase last input character
<b>&lt;Ctrl-U&gt;</b>	erase all input to start of line
<b>\</b>	escape <Ctrl-U> and <DEL>
<b>&lt;Ctrl-W&gt;</b>	erase last input word
<b>&lt;Ctrl-V&gt;</b>	quote non-printing character
<b>&lt;Ctrl-D&gt;</b>	backs up one shiftwidth (autoindent)
<b>^&lt;Ctrl-D&gt;</b>	kill autoindent on current line
<b>O&lt;Ctrl-D&gt;</b>	kill all autoindentation
<b>&lt;ESC&gt;</b>	end insertion of text

## Deleting text

<b>x</b>	delete character under cursor
<b>5x</b>	. . . and 4 characters to the right
<b>X</b>	delete character before cursor
<b>6X</b>	. . . and 5 characters to the left
<b>dw</b>	delete word (or part of word)
<b>3dw</b>	. . . and 2 complete words to the right
<b>dd</b>	delete line
<b>4dd</b>	. . . and the 3 following lines
<b>D</b>	delete part of line to right of cursor
<b>:5,10 d</b>	delete lines 5–10, inclusive
<b>dG</b>	delete from current line to end of file

## Copying and moving text

<b>yy</b>	yank or copy line
<b>3yy</b>	. . . and the 2 following lines
<b>dd</b>	delete line
<b>p</b>	put line below current line
<b>P</b>	put line above current line
<b>yw</b>	yank or copy word (or part of word)
<b>3yw</b>	. . . and 2 complete words to the right
<b>dw</b>	delete word (or part of word)
<b>4dw</b>	. . . and 3 complete words to the right
<b>p</b>	put word after cursor
<b>P</b>	put word before cursor
<b>"xy</b>	yank item to buffer <i>x</i>
<b>"xd</b>	delete into buffer <i>x</i>
<b>"xp</b>	put from buffer <i>x</i> , after cursor
<b>"xP</b>	put from buffer <i>x</i> , before cursor
<b>"dp</b>	retrieve <i>d</i> 'th last line
<b>:1,2 co 3</b>	copy lines 1–2 and put after line 3
<b>:4,5 m 6</b>	move lines 4–5 and put after line 6

## Searching and replacing

<b>/pat</b>	go to next line matching <i>pat</i>
<b>?pat</b>	go to previous line matching <i>pat</i>
<b>n</b>	repeat last / or ?
<b>N</b>	repeat last / or ? in reverse direction
<b>:3,7s/ab/cd/</b>	search lines 3–7 and replace <b>ab</b> by <b>cd</b>
<b>!.,\$</b>	search from current line to end of file
<b>:%</b>	search the whole file



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## Pattern-matching characters

<b>^</b>	beginning of line
<b>\$</b>	end of line
<b>.</b>	any character
<b>\&lt;</b>	beginning of word
<b>\&gt;</b>	end of word
<b>[str]</b>	any character in <i>str</i>
<b>[^str]</b>	any character not in <i>str</i>
<b>[x-y]</b>	any character between <i>x</i> and <i>y</i>
<b>*</b>	any number of preceding pattern

## File manipulation

<b>:sh</b>	run shell, then exit to return to vi
<b>!:cmd</b>	run <i>cmd</i> , then <CR> to return to vi
<b>:n</b>	edit next file in argument list
<b>:n args</b>	specify new argument list
<b>:e name</b>	edit file <i>name</i>
<b>:e!</b>	re-edit, discarding changes
<b>:e + name</b>	edit <i>name</i> , starting at end
<b>:e +n name</b>	edit <i>name</i> , starting at line <i>n</i>
<b>:e #</b>	edit alternate file
<b>:f or &lt;Ctrl-G&gt;</b>	show current file and line
<b>:r name</b>	insert file after cursor
<b>:n r name</b>	insert file after line <i>n</i>
<b>:ta tag</b>	look in tags file for entry under <i>tag</i>
<b>&lt;Ctrl-]&gt;</b>	word under cursor is a tag;

## Adjusting the screen

<b>&lt;Ctrl-L&gt;</b>	clear and redraw screen
<b>&lt;Ctrl-R&gt;</b>	re-type, eliminating @ lines (dumb terminals only)
<b>z&lt;CR&gt;</b>	redraw screen with current line at top
<b>z-</b>	redraw screen with current line at bottom
<b>z.</b>	redraw screen with current line at centre
<b>/pat/z-</b>	redraw screen with <i>pat</i> line at bottom
<b>zn.</b>	use <i>n</i> line window
<b>&lt;Ctrl-E&gt;</b>	scroll window down one line
<b>&lt;Ctrl-Y&gt;</b>	scroll window up one line

## Marking and returning

<b>``</b>	return to previous place after / ? <b>G</b>
<b>``</b>	return after / ? <b>G</b> at first non-white
<b>m<sub>x</sub></b>	mark position with letter <i>x</i>
<b>`x</b>	move cursor to mark <i>x</i>
<b>^x</b>	move cursor to mark <i>x</i> at first non-white

## Initializing options

<b>EXINIT</b>	environment variable for setting options
<b>.exrc</b>	startup file for vi; put options here
<b>set x</b>	enable option
<b>set no<sub>x</sub></b>	disable option
<b>set x=val</b>	set <i>x</i> to <i>val</i>
<b>set</b>	show changed options
<b>set all</b>	show all options
<b>set x?</b>	show value of option <i>x</i>

## Useful configuration options

<b>full</b>	<b>short</b>	<b>meaning</b>
<b>autoindent</b>	ai	supply indentation
<b>autowrite</b>	aw	writes before some commands
<b>ignorecase</b>	ic	in regular expression matching
<b>list</b>		shows tabs as <b>^I</b> , end-of-line as <b>\$</b>
<b>magic</b>		enables metacharacters for matching
<b>number</b>	nu	number lines
<b>redraw</b>		simulate smart terminal
<b>scroll</b>		sets number of lines for scrolling
<b>shiftwidth</b>	sw	sets number of spaces for <b>&lt;Ctrl-T&gt;</b>
<b>showmatch</b>	sm	shows matching bracket or brace
<b>slowopen</b>	slow	prevents fast updating for screen
<b>tabstop</b>	ts	sets tab intervals
<b>window</b>		specifies number of lines in window
<b>wrapscan</b>	ws	search wraps round end of file
<b>wrapmargin</b>	wm	automatic line splitting

## Specifying terminal type

		(% and \$ are system prompts)
% <b>setenv TERM type</b>	<i>type</i>	<i>csh</i> and all Version 6
\$ <b>TERM=type; export TERM</b>	<i>type</i>	<i>sh</i> in Version 7
		See also <b>man tset</b>

## Some terminal types

2621	43	adm31	dw1	h19	vt100
2645	733	adm3a	dw2	i100	sun
300s	745	c100	gt40	mime	sun-cmd
33	act4	dm1520	gt42	owl	
37	act5	dm2500	h1500	t1061	
4014	adm3	dm3025	h1510	vt52	