

UNIX Editors Summary

An ex/vi reference

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1 Ex Quick Reference

Entering/leaving Ex

Command	Action
% ex \$NAME	edit \$NAME, start at end
% ex +\$N \$NAME	... at line n
% ex -t tag	start at tag
% ex -r	list saved files
% ex -r \$NAME	recover file \$NAME
% ex \$NAME ...	edit first; rest via :n
% ex -R \$NAME	read only mode
:x	exit, saving changes
:q!	exit, discarding changes

Ex states

State	Entry	Input	Exit
Command	normal / initial	: prompts	kill char cancels partial commands
Insert	a, i, and c	arbitrary text	empty line with only a .
Open / visual	open or vi	same as above	Q or \^\\

Specifying terminal type

Command	Version
% setenv TERM \$TYPE	csh and all version 6
\$ TERM=\$TYPE; export TERM	sh in version 7

See also `tset(1)`

Ex commands

Command	Abbreviation	Command	Abbreviation	Command	Abbreviation
abbrev	ab	next	n	unabbrev	una
append	a	number	nu	undo	u
args	ar	open	o	unmap	unm
change	c	preserve	pre	version	ve
copy	co	print	p	visual	vi
delete	d	put	pu	write	w
edit	e	quit	q	xit	x
file	f	read	re	yank	ya
global	g	recover	rec	window	z
insert	i	rewind	rew	escape	!
join	j	set	se	lshift	
list	l	shell	sh	print next	CR
map		source	so	resubst	&
mark	ma	stop	st	rshift	>
move	m	substitute	s	scroll	^D

Ex command addresses

Command	Address	Command	Address
n	line n	/\$PATTERN	next with \$PATTERN
.	current	? \$PATTERN	previous with \$PATTERN
\$	last	x-\$N	n before x
+	next	x,y	x through y
-	previous	'x	marked with x
+\$N	n forward	' '	previous context
%	1,\$		

Initializing options

Command	Action
EXINIT	place sets here in environment variable.
set x	enable option
set nox	disable option
set x=\$VAL	give x value \$VAL
set	show changed options
set all	show all options
set x?	show value of option x

Useful options

Option	Abbreviation	Description
autoindent	ai	supply indent
autowrite	aw	write before changing files
ignorecase	ic	in scanning
lisp		() and {} are s-expressions
list		print ^I for tab, \$ at end
magic		., [, and * special in patterns
number	nu	number lines
paragraphs	para	macro \$NAMEs which start ...
redraw		simulate smart terminal
scroll		command mode lines
sections	sect	macro \$NAMEs ...
shiftwidth	sw	for >, and input ^D
showmatch	sw	to) and } as typed
slowopen	slow	choke updates during insert
window		visual mode lines
wrapscan	ws	around end of buffer?
wrapmargin	wm	automatic line splitting

Scanning pattern formation

Symbol	Meaning
^	beginning of line
\$	end of line
.	any character
\	beginning of word
\>	end of word
[str]	any character in str
[^str]	... not in str
[x-y]	... between x and y
*	any number of preceding

2 Vi Quick Reference

Entering/leaving Vi

Command	Action
% vi \$FILE	edit \$FILE at top
% vi +\$N \$FILE	... at line n
% vi + \$FILE	... at the end
% vi -r	list saved files
% vi -r \$FILE	recover \$FILE
% vi -t \$TAG	start at \$TAG
% vi +/\$PATTERN \$FILE	search for \$PATTERN
% view \$FILE	read-only mode
ZZ	exit, saving changes
^Z	stop to resume later

The display

Line	Function
Last	Error messages; echoing input to :, /, ?, and !; feedback about I/O, etc.
@	Screen placeholder, not in file
~	Screen placeholder, lines past EOF
~x	Control characters, ? is delete
tabs	expand to spaces, cursor at last

Vi states

State	Entry	Notes
Command	normal / initial	others return here
Insert	a, i, A, I, o, O, c, C, s, S, R	arbitrary text terminates with ESC
Last line	reading input for :, /, ?, !	ESC terminates, CR executes

Counts before Vi commands

Symbol	Meaning
z, G	line
	column
a, i, A, I	replicate insert
most others	repeat effect

Simple commands

Symbol	Meaning
dw	delete a word
de	... leaving punctuation
dw	delete a word
dd	delete a line
3dd	delete three line
itextESC	insert text , return to command state
cwnewESC	change word to new
easESC	add s to end of word
xp	transpose characters (cut and paste)

Interrupting, cancelling

Symbol	Meaning
ESC	end insert or incomplete command
^?	(delete or rubout) interrupts
^L	reprint screen if ^? scrambles it

File manipulation

Symbol	Meaning
:w	write back changes
:wq, :x	write and quit
:q	quit
:q!	quit, discard changes
:e \$FILE	edit \$FILE
:e!	re-edit, discard changes
:e + \$FILE	edit \$FILE, starting at end
:e +\$N	edit starting at line \$N
:e #	edit alternate file
^^	synonym for :e #
:w \$FILE	write \$FILE
:w! \$FILE	overwrite \$FILE
:sh	run shell, then return
:!\$CMD	run \$CMD, then return
:n	edit next file in arglist
:n args	specify new arglist
:f	show current file and line
^G	synonym for :f
:ta \$TAG	tag file entry \$TAG
^]	:ta, following word is tag

Positioning within file

Command	Action
^F	forward one screenful
^B	backward one screenful
^D	scroll down half screen
^U	scroll up half screen
G	goto line (default EOF)
/\$PAT	next line matching \$PAT
?\$PAT	previous line matching \$PAT
n	repeat last / or ?
N	reverse last / or ?
/\$PAT/+\$N	\$N'th line after \$PAT
/\$PAT/-\$N	\$N'th line before \$PAT
]]	next section / function
[[previous section / function
%	find matching () or { }

Adjusting the screen

Command	Action
<code>^L</code>	clear and redraw
<code>^R</code>	retype, eliminate @ lines
<code>zCR</code>	redraw, current at window top
<code>z-</code>	... at bottom
<code>z.</code>	... at center
<code>/\$PAT/z-</code>	\$PAT line at bottom
<code>z\$N.</code>	use \$N line window
<code>^E</code>	scroll window down 1 line
<code>^Y</code>	scroll window up 1 line

Marking and returning

Command	Action
<code>``</code>	previous context
<code>' '</code>	... at first non-whitespace character in line
<code>m\$L</code>	mark position with letter \$L
<code>^\$L</code>	to mark \$L
<code>'x</code>	... at first non-whitespace character in line

Line positioning

Command	Location
<code>H</code>	home window line
<code>L</code>	last window line
<code>M</code>	middle window line
<code>+</code>	next line at first non-whitespace character
<code>-</code>	previous line at first non-whitespace character
<code>CR</code>	return, same as +
<code>or j</code>	next line, same column
<code>^ or k</code>	previous line, same column

Character positioning

Command	Location
<code>^</code>	first non-whitespace character
<code>0</code>	beginning of line
<code>\$</code>	end of line
<code>l</code> or <code>→</code>	forward
<code>h</code> or <code>←</code>	backward
<code>^H</code>	same as <code>h</code>
<code>space</code>	same as <code>l</code>
<code>f\$X</code>	find <code>\$X</code> forward
<code>F\$X</code>	find <code>\$X</code> backward
<code>t\$X</code>	upto <code>\$X</code> forward
<code>T\$X</code>	upto <code>\$X</code> backward
<code>;</code>	repeat last <code>f</code> , <code>F</code> , <code>t</code> , or <code>T</code>
<code>,</code>	inverse <code>f</code> ;
<code> </code>	to specified column
<code>%</code>	find matching <code>(</code> , <code>{</code> , <code>)</code> , or <code>}</code>

Words, sentences, paragraphs

Command	Movement
<code>w</code>	forward word
<code>b</code>	backward word
<code>e</code>	to end of word
<code>)</code>	to next sentence
<code>}</code>	to next paragraph
<code>(</code>	backward sentence
<code>{</code>	backward paragraph
<code>W</code>	blank delimited word
<code>B</code>	back <code>W</code>
<code>E</code>	to end of <code>W</code>

Corrections during insert

Command	Action
<code>^H</code>	erase last character
<code>^W</code>	erases last word
<code>erase</code>	your erase, same as <code>^H</code>
<code>kill</code>	your kill, erase input this line
<code>\</code>	escapes <code>^H</code> , your erase and kill
<code>ESC</code>	ends insertion, back to command
<code>^?</code>	interrupt, terminates insert
<code>^D</code>	backtab over autoindent
<code>^^D</code>	kill autoindent, save for next
<code>0^D</code>	... but at margin next also
<code>^V</code>	quote non-printing character

Insert and replace

Command	Action
<code>a</code>	append after cursor
<code>i</code>	insert before
<code>A</code>	append at end of line
<code>I</code>	insert before first non-blank
<code>o</code>	open line below
<code>O</code>	open above
<code>rx</code>	replace single char with x
<code>R</code>	replace characters

Operators (double to affect lines)

Command	Action
<code>d</code>	delete
<code>c</code>	change
<code><</code>	left shift
<code>></code>	right shift
<code>!</code>	filter through command
<code>=</code>	indent for LISP
<code>y</code>	yank lines to buffer

Miscellaneous operations

Command	Action
C	change rest of line
D	delete rest of line
s	substitute chars
S	substitute lines
J	join lines
x	delete characters
X	... before cursor

Yank and put

Command	Action
Y	yank lines
p	put back lines
P	put before
"xp	put from buffer x
"xy	yank to buffer x
"xd	delete into buffer x

Undo, redo, retrieve

Command	Action
u	undo last change
U	restore current line
.	repeat last change
"dp	retrieve d'th last delete

Commands for LISP

Command	Movement
)	Forward s-expression
}	... but don't stop at atoms
(Backward s-expression
{	... but don't stop at atoms