Ex Quick Reference

Entering/leaving ex

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

Ex states

Command Normal and initial state. Input

prompted for by:. Your kill character

cancels partial command.

Insert Entered by a i and c. Arbitrary text

then terminates with line having only $\mbox{.}$ character on it or abnormally with

interrupt.

Open/visual Entered by **open** or **vi**, terminates with

 \mathbf{Q} or $\hat{\}$.

Ex commands

abbrev	ab	next	n	unabbrev	una
append	a	number	nu	undo	u
args	ar	open	0	unmap	unm
change	c	preserve	pre	version	ve
copy	co	print	p	visual	vi
delete	d	put	pu	write	\mathbf{w}
edit	e	quit	\mathbf{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

n	line <i>n</i>	lpat	next with pat
	current	?pat	previous with pat
\$	last	<i>x</i> - <i>n</i>	<i>n</i> before <i>x</i>
+	next	<i>x</i> , <i>y</i>	x through y
_	previous	'x	marked with x
+n	<i>n</i> forward	"	previous context
0/-	1 \$		-

Specifying terminal type

% setenv TERM type csh and all version 6 \$ TERM=type; export TERM sh in Version 7 See also tset(1)

Some terminal types

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

Initializing options

EXINIT place **set**'s here in environment var.

set xenable optionset noxdisable optionset x=valgive value valsetshow changed optionsset allshow all optionsset x?show value of option x

Useful options

autoindent ai supply indent

autowrite aw write before changing files

umber nu number ines

paragraphs macro names which start ... para redraw simulate smart terminal scroll command mode lines sections sect macro names ... shiftwidth for <>, and input **D** swto) and } as typed showmatch smslowopen choke updates during insert slow

windowvisual mode lineswrapscanwsaround end of buffer?wrapmarginwmautomatic line splitting

Scanning pattern formation

 \uparrow beginning of line \$ end of line any character \< beginning of word \> end of word [str] any char in str $[\uparrow str]$... not in str ... between x and y[x-y]any number of preceding

Vi Quick Reference

read only mode

Entering/leaving vi

% view name

% vi name edit name at top % **vi** +n name ... at line *n* % **vi** + name ... at end % vi −r list saved files % **vi** −**r** name recover file name % **vi** name ... edit first: rest via :n **% vi** −**t** tag start at tag % vi +/pat name search for pat

ZZ exit from vi, saving changes Z stop vi for later resumption

The display

Last line Error messages, echoing input to:/? and!,

feedback about i/o and large changes.

@ lines On screen only, not in file. ~ lines Lines past end of file.

x Control characters, *?*? is delete. tabs Expand to spaces, cursor at last.

Vi states

Command Normal and initial state. Others return

here. ESC (escape) cancels partial com-

mand.

Insert Entered by a i A I o O c C s S R. Arbitrary

text then terminates with ESC character, or

abnormally with interrupt.

Last line Reading input for: /? or!; terminate with

ESC or CR to execute, interrupt to cancel.

Counts before vi commands

Simple commands

dw delete a word

de ... leaving punctuation

dddelete a line3dd... 3 linesitextESCinsert text abccwnewESCchange word to neweasESCpluralize wordxptranspose characters

Interrupting, cancelling

end insert or incomplete cmd

(delete or rubout) interrupts

L reprint screen if ^? scrambles it

edit, starting at end

File manipulation

:e + *name*

:w write back changes :wq write and quit

:q quit

:q! quit, discard changes

:e name:e! edit file name:e! reedit, discard changes

edit starting at line n**:e** +*n* :e# edit alternate file ^ synonym for :e# write file name :w name :w! name overwrite file name :sh run shell, then return :!cmd run cmd, then return :n edit next file in arglist :n args specify new arglist show current file and line :f ^G synonym for :f to tag file entry tag :ta tag :ta, following word is tag

Positioning within file

^F forward screenfull ^B backward screenfull ^D scroll down half screen \mathbf{U} scroll up half screen \mathbf{G} goto line (end default) **Ipat** next line matching pat prev line matching pat ?pat n repeat last / or ? \mathbf{N} reverse last / or ? /pat/+n n'th line after pat ?pat?-nn'th line before pat next section/function]] [[previous section/function find matching () { or }

Adjusting the screen

L clear and redraw

^R retype, eliminate @ lines **z**CR redraw, current at window top

z- ... at bottom
z. ... at center
|pat|z- pat line at bottom
zn. use n line window
E scroll window down 1 line
Y scroll window up 1 line

Marking and returning

```
previous context
... at first non-white in line

mx mark position with letter x
to mark x
x
... at first non-white in line
```

Line positioning

H	home window line
L	last window line
M	middle window line
+	next line, at first non-white
_	previous line, at first non-white
CR	return, same as +
\downarrow or ${f j}$	next line, same column
↑ or k	previous line, same column

Character positioning

\uparrow	first non white
0	beginning of line
\$	end of line
$\mathbf{h} \text{ or } \rightarrow$	forward
\mathbf{l} or \leftarrow	backwards
H	same as \leftarrow
space	same as \rightarrow
$\mathbf{f}x$	find x forward
$\mathbf{F}x$	f backward
t x	upto x forward
$\mathbf{T}x$	back upto x
;	repeat last f F t or T
,	inverse of;
1	to specified column
%	find matching ({) or }

Words, sentences, paragraphs

w	word forward
b	back word
e	end of word
)	to next sentence
}	to next paragraph
(back sentence
{	back paragraph
\mathbf{W}	blank delimited word
В	back W
E	to end of W

Commands for LISP

)	Forward s-expression
}	but don't stop at atoms
(Back s-expression
{	but don't stop at atoms

Corrections during insert

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

Insert and replace

a	append after cursor
i	insert before
A	append at end of line

I insert before first non-blank

o open line belowO open above

rx replace single char with xR replace characters

Operators (double to affect lines)

d deletec changeleft shiftright shift

! filter through command = indent for LISP y yank lines to buffer

Miscellaneous operations

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
Y yank lines

Yank and put

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

 $\begin{array}{lll} \mathbf{u} & \text{undo last change} \\ \mathbf{U} & \text{restore current line} \\ & \text{repeat last change} \\ \\ "d\,\mathbf{p} & \text{retrieve } d\text{'th last delete} \\ \end{array}$